U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-287 656

Water Resources Data for Connecticut, Water Year 1974 Part 1, Surface Water Records. Part 2, Water Quality Records. Part 3, Ground Water Records

(U.S.) Geological Survey, Hartford, CT. Water Resources Div.

1974

PB 287656

1974

Water Resources Data for Connecticut

Water Year 1974

Part 1. Surface Water Records

Part 2. Water Quality Records

Part 3. Ground Water Records

MARCH 3, 1849

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U. S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

UNITED STATES
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CT-74-1

Prepared in cooperation with the State of Connecticut
and with other agencies

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

NOVEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

DECEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

1974

JANUARY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

FEBRUARY

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

MARCH

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

APRIL

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

MAY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JUNE

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

JULY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

AUGUST

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

SEPTEMBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

BIBLIOGRAPHIC DATA SHEET

1. Report No.
USGS/WRD/HD-78/119

2.

3. Recipient's Accession No.
PB287656

4. Title and Subtitle
Water Resources Data for Connecticut, Water Year 1974
Part 1. Surface Water Records
Part 2. Water Quality Records
Part 3. Ground Water Records

5. Report Date
1975

6.

7. Author(s)

8. Performing Organization Rept. No.
USGS-WDR-CT-74-1

9. Performing Organization Name and Address
U.S. Geological Survey, Water Resources Division
135 High Street, Rm. 235
Hartford, CT 06103

10. Project/Task/Work Unit No.

11. Contract/Grant No.

12. Sponsoring Organization Name and Address
U.S. Geological Survey, Water Resources Division
135 High Street, Rm. 235
Hartford, CT 06103

13. Type of Report & Period Covered
Annual - Oct. 1, 1973- to Sept. 30, 1974

14.

15. Supplementary Notes
Prepared in cooperation with the State of Connecticut and with other agencies.

16. Abstracts

Water resources data for the 1974 water year for Connecticut consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of wells and springs. This report contains discharge records for 61 gaging stations; stage only records for 3 gaging stations; stage and contents for 36 lakes and reservoirs; water quality for 55 gaging stations, and water levels for 25 observation wells. Also included are 54 low-flow and 61 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Connecticut.

17. Key Words and Document Analysis. 17a. Descriptors

*Connecticut, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses.

17b. Identifiers/Open-Ended Terms

17c. COSATI Field/Group

18. Availability Statement
No restriction on distribution.
This report may be purchased from:
National Technical Information Service
Springfield, VA 22161

19. Security Class (This Report)
UNCLASSIFIED

20. Security Class (This Page)
UNCLASSIFIED

21. No. of Pages
220

22. Price
PCA08 / MF A01

FORM NTIS-35 (REV. 10-73) ENDORSED BY ANSI AND UNESCO. THIS FORM MAY BE REPRODUCED USCOMM-DC 8265-P74

1974

Water Resources Data for Connecticut

Water Year 1974

Part 1. Surface Water Records

Part 2. Water Quality Records

Part 3. Ground Water Records

MARCH 3, 1849

UNITED STATES
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CT-74-1

Prepared in cooperation with the State of Connecticut
and with other agencies

Prepared in cooperation with

State Department of Environmental Protection
State Department of Transportation
Town of Fairfield, Conservation Commission
City of Hartford, Department of Public Works
City of New Britain, Board of Water Commissioners
City of Torrington, Engineering Department
Corps of Engineers, U.S. Army
Environmental Protection Agency

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
235 Post Office Building, P.O. Box 715
Hartford, Connecticut 06101

1975

CONTENTS

Page

List of surface-water stations, in downstream order, for which records are published V
List of water-quality stations, in downstream order, for which records are published VIII
List of ground-water stations for which water-level records are published X
Introduction 1
Cooperation 2
Definition of terms 4
Special network and programs 11
Downstream order and station numbers 12
Well number 13
Explanation of surface water records 14
- Collection and computation of data 14
- Accuracy of data 19
- Publications 19
- Other data available 20

Explanation of water quality records 20
- Collection and examination of data 20
- Solutes 22
- Temperature 23
- Sediment 24
- Publications 25

Explanation of ground water records 25
- Abbreviations 25
- Water-level measurements 26
- Publications 26

Selected references 27
Part 1. Surface-water records 31
Part 2. Water-quality records 119
Part 3. Ground-water records 252
Index 256

ILLUSTRATIONS

Figure 1. Map showing locations of gaging and water-quality stations in Connecticut XII
2. Map showing locations of observation wells and towns wherein ground-water quality data were collected in Connecticut XIII
3. System for numbering wells (latitude and longitude) 13

TABLES

Page

Table 1. Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre 7
2. Factors for conversion of sediment concentration in milligrams per litre to parts per million 7
3. Degrees Celsius (°C) to degrees Fahrenheit (°F). 23
4. Factors for converting English units to international System (SI) units 30

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

Page

PAWCATUCK RIVER BASIN

- Green Fall River (head of Ashaway River):
  - Wyassup Brook:
    - Pendleton Hill Brook near Clarks Falls 32

POQUONOCK RIVER BASIN

- Poquonock River near Groton 33

THAMES RIVER BASIN

- Willimantic River (head of Thames River):
- Willimantic River near South Coventry 34
  - Still River (head of Natchaug River):
    - Bungee Brook:
      - Safford Brook near Woodstock Valley 35
    - Mount Hope River near Warrenville 36
    - Natchaug River at Willimantic 37
- Shetucket River (continuation of Willimantic River) near Willimantic 38
  - Little River near Hanover 39
  - Quinebaug River at Quinebaug 40
  - Quinebaug River at West Thompson 41
    - Blackwell Brook near Brooklyn 42
  - Quinebaug River at Jewett City 43
  - Yantic River at Yantic 44
- Reservoirs in Thames River basin 45

CONNECTICUT RIVER BASIN

- Connecticut River at Thompsonville 46
  - Scantic River:
    - Broad Brook at Broad Brook 47
  - Farmington River:
  - West Branch Farmington River above Still River at Riverton. 48
    - Still River:
      - Sandy Brook at Robertsville 49
    - Still River at Robertsville 50
    - Hubbard River (head of East Branch Farmington River) near West Hartland 51
  - Farmington River at Collinsville 52
    - Burlington Brook near Burlington 53
    - Pequabuck River at Forestville 54
    - Salmon Brook:
      - East Branch Salmon Brook at Granby 55
- Farmington River at Tariffville 56
- Farmington River at Rainbow 57
- Connecticut River at Hartford 58

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

Page

- Park River:
  - South Branch Park River at Hartford 59
  - North Branch Park River at Hartford 60
- Salmon Brook:
  - South Branch Salmon Brook at Buckingham 61
- Coginchaug River at Rockfall 62
- Connecticut River near Middletown 63
  - Salmon River near East Hampton 70
  - Whalebone Creek:
    - Hemlock Valley Brook at Hadlyme 71
  - Eightmile River:
    - East Branch Eightmile River near North Lyme 72
- Reservoirs in Connecticut River basin 73

HAMMONASSET RIVER BASIN

Hammonasset River near North Madison 75

EAST RIVER BASIN

Neck River near Madison 76

QUINNIPIAC RIVER BASIN

Quinnipiac River at Wallingford 77
Reservoirs in Quinnipiac River basin.................... 78

MILL RIVER BASIN

Mill River at Hamden 79

HOUSATONIC RIVER BASIN

- Housatonic River:
  - Hollenbeck River at Huntsville 80
    - Wangum Lake Brook near Huntsville 81
      - Deming Brook near Huntsville 82
      - Ledgy Brook near Huntsville 83
    - Wangum Lake Brook near South Canaan 84
- Housatonic River at Falls Village 85
  - Salmon Creek at Lime Rock 86
    - Guinea Brook at Ellsworth 87
  - Tenmile River near Gaylordsville 88
- Housatonic River at Gaylordsville 89
  - Shepaug River:
  - East Branch Shepaug River:
  - Marshepaug River near Milton 90
  - Pomperaug River:
  - Nonewaug River (head of Pomperaug River) at Minortown 91
  - Pomperaug River at Southbury 92
  - Halfway River:
    - Copper Mill Brook near Monroe 93

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

Page

Housatonic River at Stevenson 94

Naugatuck River:

West Branch Naugatuck River at Torrington 95
East Branch Naugatuck River at Torrington 96
Naugatuck River at Thomaston 97
Branch Brook near Thomaston 98
Hop Brook near Naugatuck 99
Naugatuck River at Beacon Falls 100
Reservoirs in Housatonic River basin 101

MILL RIVER BASIN

Mill River near Fairfield 103

SASCO BROOK BASIN

Sasco Brook near Southport 104

SAUGATUCK RIVER BASIN

Saugatuck River near Redding 105

NORWALK RIVER BASIN

Norwalk River at South Wilton 106

LONG ISLAND SOUND

Stamford Hurricane Barrier at Stamford 107

DISCHARGE AT PARTIAL-RECORD STATIONS:

Low-flow partial-record stations.............................. 108
Crest-stage partial-record stations 112

TIME OF TRAVEL STUDIES

CONNECTICUT RIVER BASIN:

Park River:

South Branch Park River 117
North Branch Park River 117
Park River 117

QUINNIPIAC RIVER BASIN:

Quinnipiac River 117

HOUSATONIC RIVER BASIN:

Still River 118

WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

(Letters after station name designate type of data:
(c) chemical, (t) water temperature, (s) sediment)

Page

PAWCATUCK RIVER BASIN

Pawcatuck River near Pawcatuck (c) 120

THAMES RIVER BASIN

Willimantic River at Merrow (c) 121
  Natchaug River at Willimantic (c) 122
Shetucket River near Willimantic (c) 123
Shetucket River at South Windham (c) 127
  Quinebaug River near Dudley, Mass. (c,t) 128
    French River at Mechanicsville (c) 135
  Quinebaug River at Putnam (c) 136
  Quinebaug River at Pomfret Landing (c) 137
  Quinebaug River at Jewett City (c,t) 138
  Yantic River at Yantic (c) 143
Thames River near Mohegan (c) 147

CONNECTICUT RIVER BASIN

Connecticut River at Agawam, Mass. (c,t) 148
Connecticut River at Thompsonville (c,t,s) 155
  Farmington River:
    Still River at Riverton (c) 163
    Burlington Brook near Burlington (c) 164
  Farmington River at Unionville (c) 168
    Pequabuck River at Farmington (c) 169
  Farmington River at Avon (c) 170
  Farmington River at Tariffville (c) 171
  Rainbow Reservoir at Rainbow (t) 175
  Farmington River at Windsor (c) 176
Connecticut River at Hartford (c) 177
  Park River at Hartford (c) 178
  Hockanum River at East Hartford (c) 179
Connecticut River at Middletown (c) 180
Connecticut River at Middle Haddam (c) 181
  Salmon River near East Hampton (c) 191
Connecticut River at East Haddam (c) 195

QUINNIPIAC RIVER BASIN

Quinnipiac River near Meriden (c) 196
Quinnipiac River at Wallingford (c) 197
Quinnipiac River at North Haven (c) 201

LONG ISLAND SOUND

New Haven Harbor near New Haven (c) 202

WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

(Letters after station name designate type of data:
(c) chemical, (t) water temperature, (s) sediment)

Page

HOUSATONIC RIVER BASIN

- Housatonic River near Canaan (c) 203
  - Hollenbeck River at Huntsville (c) 204
    - Wangum Lake Brook near Huntsville (c) 207
      - Deming Brook near Huntsville (c) 210
      - Ledgy Brook near Huntsville (c) 211
    - Wangum Lake Brook near South Canaan (c) 212
- Falls Village Reservoir at Falls Village (t) 215
- Housatonic River at Falls Village (c) 216
  - Tenmile River near Gaylordsville (c) 219
- Housatonic River near New Milford (c) 222
  - Still River at Brookfield Center (c) 223
- Lake Lillinonah near Brookfield Center (c) 224
  - Shepaug River near Roxbury (c) 225
  - Pomperaug River at Southbury (c) 226
- Lake Zoar at Riverside (c) 230
- Housatonic River at Stevenson (c) 232
- Housatonic River at Shelton (c) 236
  - Naugatuck River at Beacon Falls (c) 237
  - Naugatuck River at Ansonia (c) 238
- Housatonic River at Stratford (c) 239

SAUGATUCK RIVER BASIN

- Saugatuck River near Redding (c) 240

LONG ISLAND SOUND

- Stamford Harbor at Stamford (c) 244

Analyses of samples collected at miscellaneous sites (c) ... 245

Chemical analyses of ground water in Connecticut (c) 246

x GROUND-WATER STATIONS FOR WHICH WATER-LEVEL RECORDS ARE PUBLISHED

			Page
FAIRFIELD COUNTY			
Brookfield	413007073250501	BD 8.....	254
Fairfield	411256073153101	FF 23.....	254
Newtown	412429073165101	NT 15.....	254
HARTFORD COUNTY			
Burlington	414615072581601	BU 2.....	254
South Windsor	414910072372101	SW 64.....	254
LITCHFIELD COUNTY			
North Canaan	420125073193001	NOC 7.....	254
Torrington	414910073072301	T 2.....	254
Woodbury	413202073122401	WY 1.....	254
MIDDLESEX COUNTY			
Middlefield	413033072432001	MF 1.....	254
Middletown	413254072335501	MT 261.....	255

GROUND-WATER STATIONS FOR WHICH WATER-LEVEL RECORDS ARE PUBLISHED

NEW HAVEN COUNTY

			Page
East Haven	411457072524501	EHV 70.....	255
New Haven	411842072553601	NHN 170.....	255
	411838072570701	NHN 175.....	255
	411829072542001	NHN 179.....	255
	411805072545801	NHN 235.....	255
	411826072553601	NHN 354.....	255
	411843072543901	NHN 355.....	255
	411801072545001	NHN 356.....	255
	411834072570701	NHN 358.....	255
Waterbury	413134073021701	WB 93.....	256
	413245072584201	WB 198.....	256

NEW LONDON COUNTY

Groton	412013072030601	GT 19.....	256

TOLLAND COUNTY

Mansfield	414548072114501	MS 19.....	256

WINDHAM COUNTY

Brooklyn	414911071562001	BK 41.....	256
Plainfield	414054071552001	PL 1.....	256

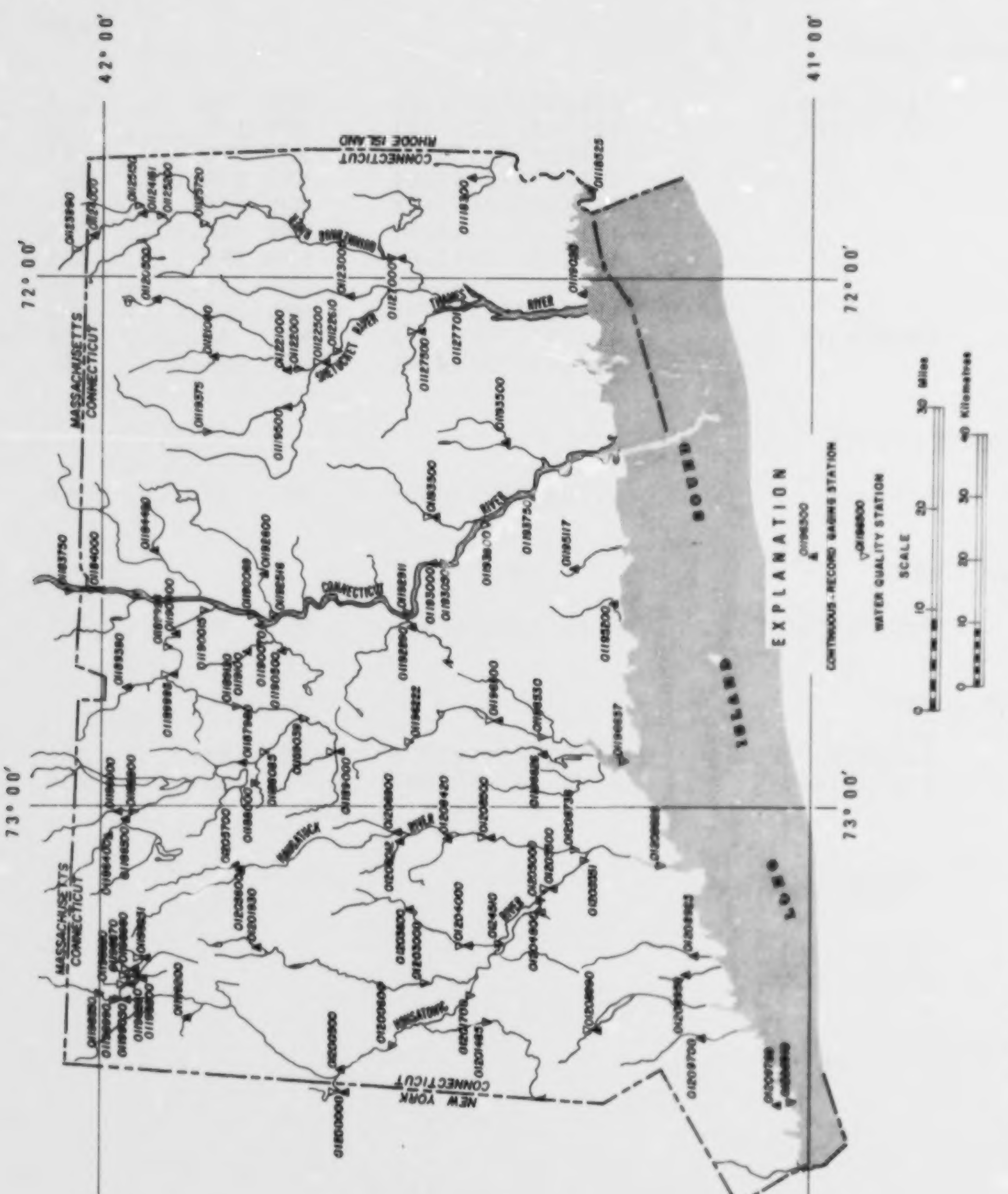

42° 00'
41° 00'
72° 00'
73° 00'
MASSACHUSETTS
CONNECTICUT
RHODE ISLAND
NEW YORK
CONNECTICUT RIVER
THAMES RIVER
HOUSATONIC
NAUGATUCK RIVER
LONG ISLAND SOUND
EXPLANATION
01196500
CONTINUOUS-RECORD GAGING STATION
01196600
WATER QUALITY STATION
SCALE
0 10 20 30 Miles
0 10 20 30 40 Kilometres

FIGURE 1--MAP OF CONNECTICUT SHOWING LOCATION OF STREAM GAGING AND WATER QUALITY STATIONS

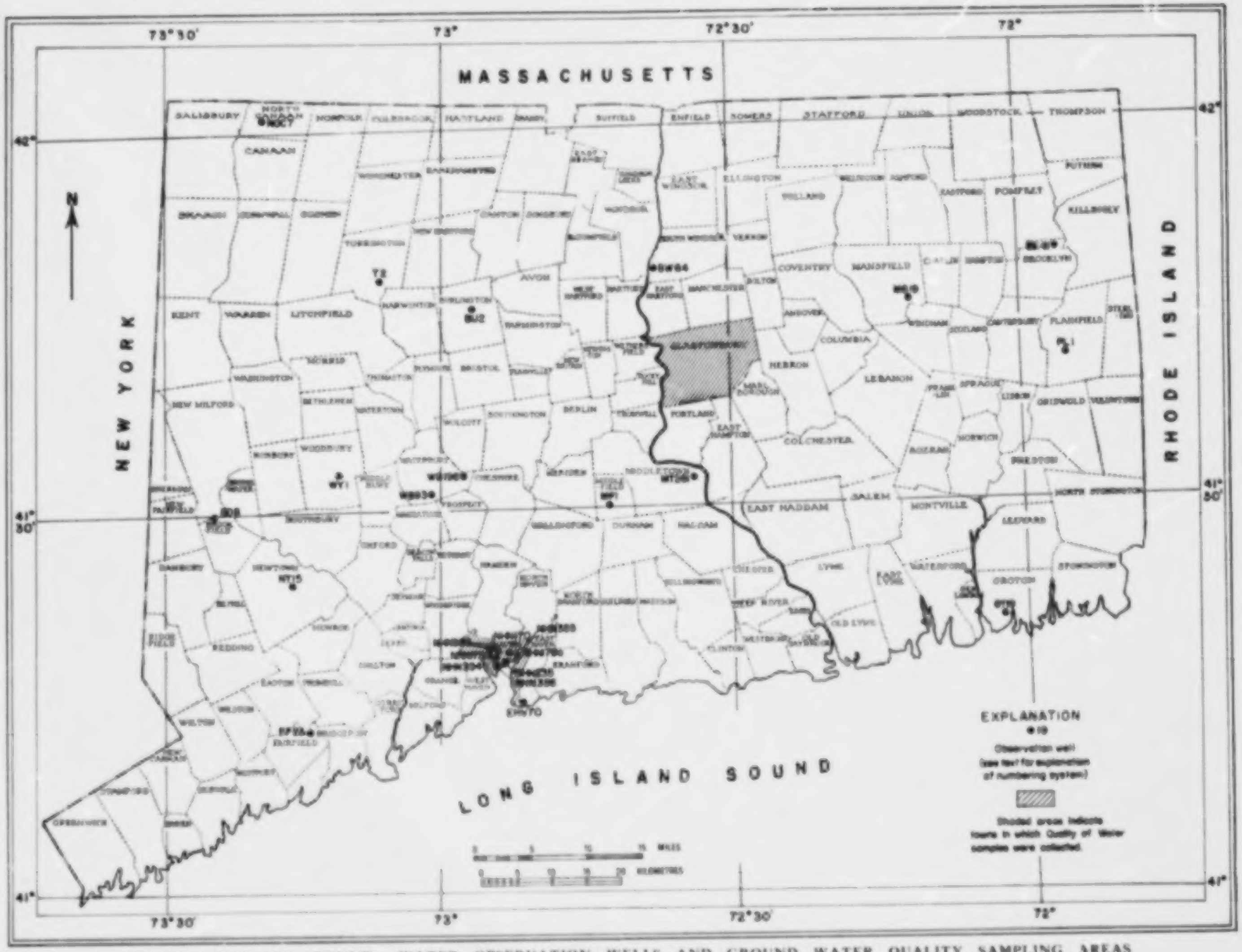

MASSACHUSETTS
RHODE ISLAND
NEW YORK
LONG ISLAND SOUND
N
73°30'
73°
72°30'
72°
42°
41°30'
41°
SALISBURY
NORFOLK
HARTLAND
SUFFIELD
ENFIELD
SOMERS
STAFFORD
UNION
WOODSTOCK
THOMPSON
CANAAN
ELLINGTON
TOLLAND
POMFRET
KILLINGLY
TORRINGTON
AVON
VERNON
COVENTRY
MANSFIELD
BROOKLYN
KENT
WARREN
LITCHFIELD
FARMINGTON
MANCHESTER
GLASTONBURY
ANDOVER
COLUMBIA
HEBRON
LEBANON
PLAINFIELD
WASHINGTON
BRISTOL
BERLIN
PORTLAND
EAST HAMPTON
COLCHESTER
NORWICH
NEW MILFORD
WATERTOWN
MERIDEN
MIDDLETOWN
PRESTON
EAST HADDAM
SALEM
MONTVILLE
SOUTHBURY
WALLINGFORD
DURHAM
HADDAM
DANBURY
NEWTOWN
CHESTER
LYME
WATERFORD
GROTON
STONINGTON
REDDING
DEEP RIVER
OLD LYME
CLINTON
BRANFORD
EASTON
WILTON
FAIRFIELD
GREENWICH
EXPLANATION
Observation well (see text for explanation of numbering system)
Shaded areas indicate towns in which Quality of Water samples were collected.
0 5 10 15 MILES
0 5 10 15 20 KILOMETRES

FIGURE 2--MAP OF GROUND WATER OBSERVATION WELLS AND GROUND WATER QUALITY SAMPLING AREAS

WATER RESOURCES DATA FOR CONNECTICUT, 1974

1

Part 1. Surface-Water Records
Part 2. Water-Quality Records
Part 3. Ground-Water records

INTRODUCTION

Water resources data for the 1974 water year for Connecticut including records of streamflow or reservoir storage at gaging stations and partial-record stations, and records of water-quality data on the chemical and physical characteristics of surface and ground water, and ground-water levels, are given in this report. In Part 1, records are included for 64 gaging stations, of which 61 are streamflow discharge stations and 3 are stage only streamflow stations; also are included records for 61 low-flow and crest-stage partial-record stations. Locations of gaging stations are shown in figure 1. In Part 2, data on the quality of surface water (chemical and temperature) were collected from designated sampling sites at predetermined intervals such as once daily, monthly, or less frequently, and at two sites data were recorded on punched paper tape at 60-minute intervals. Records are given for 55 monthly sampling stations and 2 miscellaneous sites. Records of chemical analyses also are given for 4 ground-water stations and one miscellaneous site. Locations of water-quality stations are shown on figures 1 and 2. A few pertinent stations (not included above) in bordering States are also included in this report. In Part 3, data on ground-water levels were collected at 26 stations. Location of the observation well stations are shown on figure 2. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of Frederick H. Ruggles, Jr., district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Connecticut.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1964 water year, and ground-water records beginning with the 1967 water year have been similarly released in conjunction with the streamflow records. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. Records of chemical quality, water temperatures, and suspended sediment have been published since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States."

Through December 31, 1955, ground-water levels were published in an annual series of U.S. Geological Survey water-supply papers. The calendar years 1956 through 1960 span a transition period wherein the reports were converted from presentation of only one year's data to presentation of five year's data. More information is given under the headings "Publications" on pages 25 and 26.

COOPERATION

The U.S. Geological Survey and organizations of the State of Connecticut have had cooperative agreements for the systematic collection of streamflow records since 1928, for water-quality records since 1952, and ground-water records since 1934. Organizations that assisted in collecting data through cooperative agreements with the Survey are:

State Department of Environmental Protection, Douglas R. Costle, commissioner.

State Department of Transportation, A. Earl Wood, commissioner.

Town of Fairfield, Conservation Commission, Thomas J. Steinke, director.

City of Hartford, Department of Public Works, George E. Heppner, director.

City of New Britain, Board of Water Commissioners, John A. McManus, director Board of Water Commissioners.

City of Torrington, Francis Sattin, director, Public Works.

Assistance in the form of funds were given by the Corps of Engineers, Department of the Army, in collecting records for eight gaging stations published in this report. Funds were furnished by the Environmental Protection agency collecting water-quality data for the Connecticut River at Thompsonville, Connecticut.

The following organizations aided in collecting records:

Metropolitan Water Bureau of Hartford; city of Waterbury; Massachusetts Department of Natural Resources; Connecticut Light and Power Co.; city of Wallingford; Farmington River Power Co.; Hartford Electric Light Co.; New Haven Water Co.

Organizations that supplied data are acknowledged in station descriptions.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System of units (SI) on page 30.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic metres.

Bed material is the shifting portion of fragmented material of which the streambed is composed.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic metres. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 millilitres is determined by the immediate incubation membrane filter method.

Contents is the volume of water in a reservoir, lake, stream or aquifer. Contents herein is that of a reservoir or lake and unless otherwise indicated, is computed on the basis of a level pool and does not include bank storage.

> Total capacity is the volume of water which may be stored in a reservoir or lake below the crest of the spillway and includes usable capacity and dead storage. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.
>
> Usable capacity is the volume of water which may be stored in a reservoir or lake between the spillway crest and the lowest level drainable by gravity.

Usable contents is the volume of water in a reservoir or lake between the lowest level drainable by gravity and any higher elevation above or below the spillway crest.

Continuing-record station is a specified site which which meets one or all conditions listed:

1. When chemical samples are collected daily or monthly for 10 or more months during the water year.

2. When water temperature records include observations taken once or more times daily.

3. When sediment discharge records include those periods for which sediment loads are computed and are considered to be representative of the runoff for the water year.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (CFS, cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute, or 0.02832 cubic metres per second.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage" although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharges are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per litre (UG/L, ug/l) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per litre is equivalent to one milligram per litre.

Milligrams per litre (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1, p. 7. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, p. 7.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1})......	0.00788
Ammonia as NH_4^{+1}...	.05544	Iron (Fe^{+3})*......	.05372
Barium (Ba^{+2})......	.01456	Lead (Pb^{+2})*......	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*...	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2})*....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*...	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3}).	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1}).....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})*.	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*......	.03060

*Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in milligrams per litre to parts per million*
(All values calculated to three significant figures)

Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170- -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimetres (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling) (Guy, 1969).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of Analysis
Clay	0.00024 - 0.004	Sedimentation
Silt	.004 - .062	Sedimentation
Sand	.062 - 2.0	Sedimentation or sieve
Gravel	2.0 - 64.0	Sieve

The particle-size distribution given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis (Guy, 1969).

Runoff in inches (IN,in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Such major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time (Colby and Hembree, 1955).

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the water year.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per litre by 1.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges.

A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixture in the reservoir. See also table for converting English Units to International Units on p. 30.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

National stream-quality accounting network is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in stream quality.

Radiochemical program is a network of regularly sampled water quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radiosotopes that are determined in this program are those of uranium in ug/l (micrograms per litre), radium as radium-226 in PC/L (pCi/l, picocuries per litre), gross beta radiation as strontium/yttrium-90 or cesium-137 in PC/L, and gross alpha radiation as micrograms of uranium equivalent per litre (ug/l). Gross alpha and beta radioactivity associated with the fine grained (silt and clay sized) sediments in the samples are also determined.

A picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

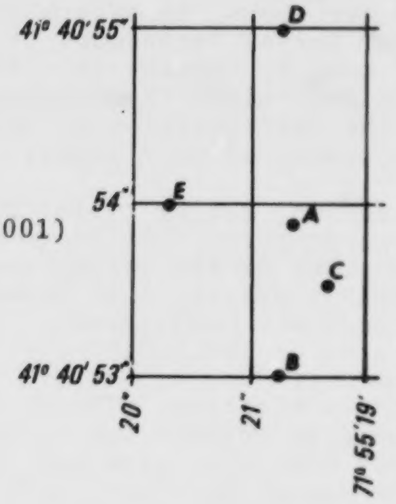
DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 01188000, which appears just to the left of the station name includes the 2-digit part number "01" plus the 6-digit downstream order number "188000." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 1 (Basins from Maine to Connecticut). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

WELL NUMBER

The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last digit is a sequential number for wells within a 1-second grid. The system provides the geographic location of the well and a unique number for each well. See figure 3 below.



Coordinates for well D
(414055071551901)

Coordinates
for well E
(414054071552001)

Coordinates for wells
A(414053071551901)
B(414053071551902)
C(414053071551903)

Figure 3. System for numbering wells (latitude and longitude)

Wells in Connecticut also have been assigned numbers based on the town in which a well is located. The numbers based on location within towns include a letter symbol derived from the town name and the serial numbers based on location within towns are used to identify the wells shown on figure 2, p. XIII.

EXPLANATION OF SURFACE WATER RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30- or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the U.S. Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed form the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to computed daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging stations gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." the type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents) and the minimum gage height, if it is significant, are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches.

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions, are shown in the "REMARKS" paragraph. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the "EXTREMES" paragraph. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subjected to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

Data collected at partial-record stations are given in two tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations.

Accuracy of data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation, or if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Connecticut for the period October 1960 to September 1965 are in Water-Supply Paper 1901.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and month-end storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Connecticut are compiled in Water-Supply Paper 1301 through September 1950, and in 1701 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other data available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also, most gaging station records are available in computer-usable form and many statistical analyses have been made.

EXPLANATION OF WATER QUALITY RECORDS

Collection and examination of data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given are location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water stations, no descriptive statements are given; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water.

Water-quality information is presented for chemical, biological, microbiological quality, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium adsorption ratio, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnished information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment and bed material.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. Temperatures reported in degrees Celsius may be converted to degrees Fahrenheit by using Table 3, p. 23.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definitions of Terms," p. 4, and table for converting English Units to SI Units, p. 30.)

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory (1971). Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar (1967), Lamar, Goerlitz, and Law (1965), and Goerlitz and Brown (1972). The collection and analysis of aquatic, biological and microbiological samples are described by Slack and others (1973).

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between the reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

The daily chemical-quality data in this report generally represent equal-volume composites for 2- to 30-day periods; the composite periods are selected on the basis of specific conductance of the daily samples and fluctuation of water discharge.

For chemical-quality stations equipped with noncontinuous-digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey district office at the address given on the back of the title page of this report.

Ground-water quality normally does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately define ground-water quality at a given site. Water samples from wells are analyzed individually.

Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for surface-water stations. For daily stations, the water temperatures are taken about the same time each day when sample is collected. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*°C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross-section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples are collected, daily loads of suspended sediment are estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

Publications

The annual series of water-supply papers that contain information on quality of surface water in Connecticut are listed below:

Water year	WSP No.	Water year	WSP No.
1953	1290	1962	1941
1954	1350	1963	1947
1955	1400	1964	1954
1956	1450	1965	1961
1957	1520	1966	1991
1958	1571	1967	2011
1959	1641	1968	2091
1960	1741	1969	*2143
1961	1881	1970	*2151
		1971	*2161

*In press.

EXPLANATION OF GROUND-WATER RECORDS

Abbreviations

Standard abbreviations are used in the well description. The most commonly used abbreviations and their explanations are as follows:

diam--diameter
eom--end of month
ft--foot or feet
in--inch or inches
lat--latitude
long--longitude
lsd--land-surface datum
msl--mean sea level
MP--measuring point
U.S.--United States; abbreviated only when followed by name of a government agency.

Water-level Measurements

Water levels are in feet below land-surface datum except in the city of New Haven, where they are above or below mean sea level. A minus sign before the measurement indicates that it is below mean sea level. The screened interval open to the aquifer is recorded in ft.

Beginning in 1956 ground-water levels in Connecticut were published in a series of bulletins by the Connecticut Water Resources Commission. Data contained in this series were on a calendar year basis, covering the years 1956 to 1966, inclusive.

Beginning in 1967, ground-water levels in Connecticut were published in the annual series of reports, Water Resources Data for Connecticut. Data in this series of reports are on a water-year basis.

Publications

The annual series of water-supply papers that contain information on ground-water levels in Connecticut are listed below:

Calendar year	WSP No.	Calendar year	WSP No.
1935	777	1947	1096
1936	817	1948	1126
1937	840	1949	1156
1938	845	1950	1165
1939	886	1951	1191
1940	906	1952	1221
1941	936	1953	1265
1942	944	1954	1321
1943	986	1955	1404
1944	1016	1956-57	1537
1945	1023	1958-62	1782
1946	1071	1963-67	1977

SELECTED REFERENCES

American Public Health Association, and others, 1971, Standard methods for the examination of water and wastewater, 13th ed.: Am. Public Health Assoc., New York, 874 p.

Barker, F. B., and Johnson, J. O., 1964, Determination of radium in water: U.S. Geol. Survey Water-Supply Paper 1696-B, 29 p.

Barker, F. B., and others, 1965, Determination of uranium in natural water: U.S. Geol. Survey Water-Supply Paper 1696-C, 25 p.

Barker, F. B., and Robinson, B. P., 1963, Determination of beta activity in water: U.S. Geol. Survey Water-Supply Paper 1696-A, 32 p.

Barnett, P. R., and Mallory, Jr., E. C., 1971, Determination of minor elements in water by emission spectroscopy: U.S. Geol. Survey Techniques of Water Resources Inv., book 5, chap. A2, 31 p.

Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.

Carter, R. W., and Davidian, Jacob, 1968, General procedures for gaging streams: U.S. Geol. Survey Techniques of Water Resources Inv., book 3, chap. A6, 13 p.

Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.

Colby, B. R., and Hembree, C. H., 1955, Computations of total sediment discharge, Niobrara River near Cody, Nebraska: U.S. Geol. Survey Water-Supply Paper 1357, 187 p.

Colby, B. R., and Hubbell, D. W., 1961, Simplified methods for computing total sediment discharge with the modified Einstein procedure: U.S. Geol. Survey Water-Supply Paper 1593, 17 p.

Corbett, D. M., and others, 1943, reprinted 1957, Stream-gaging procedures, a manual describing methods and practice of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.

Goerlitz, D. F., and Brown, Eugene, 1972, Methods for analysis of organic substances in water: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5 chap. A3, 40 p.

Goerlitz, D. F., and Lamar, W. L., 1967, Determination of phenoxy acid herbicides in water by electron-capture and microcoulometric gas chromatography: U.S. Geol. Survey Water-Supply Paper 1817-C, 21 p.

Guy, H. P., 1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 58 p.

_____1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.

Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.

Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water, 2d ed.: U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

Lamar, W. L., Goerlitz, D. F., and Law, L. M., 1965, Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography: U.S. Geol. Survey Water-Supply Paper 1817-B, 12 p.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

Lohman, S. W., and others, 1972, Definitions of selected ground-water terms--revisions and conceptual refinements: U.S. Geol. Survey Water-Supply Paper 1988, p. 2.

Porterfield, George, 1972, Computations of fluvial-sediment discharge: U.S. Geol. Survey Techniques of Water Resources Inv., book 3, chap. C3, 66 p.

Ritter, J. R., and Helley, E. J., 1969, Optical method for determining particle sizes of coarse sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C3, 33 p (open file).

Rose, Arthur and Elizabeth, 1966, The condensed chemical dictionary: Reinhold Pub. Corp., New York 7th ed., p. 257.

Slack, K. V., and others, 1973, Methods for collection and analysis of aquatic, biological and microbiological samples: U.S. Geol. Survey Techniques of Water Resources Inv., book 5, chap. A-4, 165 p.

Thomas, M. P., 1972, Gazetteer of natural drainage areas of streams and water bodies within the State of Connecticut: Connecticut Department of Environmental Protection Bull. No. 1, 89 p.

Thomas, M. P., and Cervione, M. A., Jr., 1970, A proposed streamflow data program for Connecticut: Connecticut Water Resources Bull. No. 23, 18 p.

U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, A study of methods used in measurement and analysis of sediment loads in streams. Published by the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn.

______1941, Methods of analyzing sediment samples: Rept. 4.

______1953, Accuracy of sediment size analyses made by the bottom-withdrawal-tube method: Rept. 10.

______1957, The development and calibration of visual accumulation tube: Rept. 11.

______1957, Some fundamentals of particle size analysis: Rept. 12.

______1959, Federal Inter-agency sedimentation instruments and reports: Rept. AA.

______1961, The single stage sampler for suspended sediment: Rept. 13.

______1963, Determinations of fluvial sediment discharge: Rept. 14.

Table 4.--Factors for converting English units to International System units (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
rods	5.0292	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
acres	4047	square metres (m^2)
	.4047	*hectares (ha)
	.4047	square hectometres (hm^2)
	.004047	square kilometres (km^2)
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm^3)
	3.785×10^{-3}	cubic metres (m^3)
million gallons (10^6 gal)	3785	cubic metres (m^3)
	3.785×10^{-3}	cubic hectometres (hm^3)
cubic feet (ft^3)	28.32	cubic decimetres (dm^3)
	.02832	cubic metres (m^3)
cfs-days [(ft^3/s) · d]	2447	cubic metres (m^3)
	2.447×10^{-3}	cubic hectometres (hm^3)
acre-feet (acre-ft)	1233	cubic metres (m^3)
	1.233×10^{-3}	cubic hectometres (hm^3)
	1.233×10^{-6}	cubic kilometres (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm^3/s)
	.02832	cubic metres per second (m^3/s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm^3/s)
	6.309×10^{-5}	cubic metres per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm^3/s)
	.04381	cubic metres per second (m^3/s)
	Mass	
tons (short)	.9072	tonnes (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

PART 1. SURFACE-WATER RECORDS

01118300 Pendleton Hill Brook near Clarks Falls, Conn.

LOCATION.--Lat 41°28'29", long 71°50'05", New London County, on left bank just upstream from twin culverts on Grindstone Hill Road, 0.1 mi (0.2 km) west of State Highway 49 in the township of North Stonington, 1.6 mi (2.6 km) northwest of Clarks Falls, and 3.4 mi (5.5 km) northeast of village of North Stonington.

DRAINAGE AREA.--4.02 mi² (10.41 km²).

PERIOD OF RECORD.--July 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 152.90 ft (46.604 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 8.47 ft³/s (0.240 m³/s), 28.61 in/yr (727 mm/yr).

EXTREMES.--Current year: Maximum discharge, 131 ft³/s (3.71 m³/s) Dec. 17, gage height, 3.84 ft (1.170 m); minimum, 0.07 ft³/s (0.002 m³/s) Aug. 22; minimum gage height, 0.75 ft (0.229 m) Aug. 22, 23, 27, 28.

Period of record: Maximum discharge, 344 ft³/s (9.74 m³/s) Mar. 18, 1968, gage height, 5.91 ft (1.801 m); minimum, 0.02 ft³/s (0.001 m³/s) Sept. 7-11, 1964, Sept. 12, 13, 1965.

PEAK DISCHARGE.--(BASE, 70 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-17	1530	3.84	131
12-21	1800	3.30	91
03-21	1830	3.36	95

REMARKS.--Records excellent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	12	7.5	22	16	13	15	6.5	7.7	2.1	.19	1.1
2	2.2	6.6	6.2	19	14	13	12	6.0	8.4	1.7	.19	1.5
3	5.1	6.5	5.7	16	12	11	11	8.0	5.9	2.1	.20	2.0
4	4.4	5.2	5.6	15	11	11	19	8.8	4.6	2.3	.20	3.0
5	3.5	4.5	6.0	14	9.5	10	18	7.0	3.9	1.7	.15	1.9
6	3.1	4.2	10	13	8.7	9.7	17	6.4	3.4	3.0	.14	1.4
7	2.8	4.0	8.4	12	9.2	9.2	14	6.3	3.0	2.0	.12	6.0
8	2.7	3.9	6.9	10	9.1	8.6	12	5.9	2.8	1.4	.34	4.2
9	2.7	3.8	12	9.5	8.9	8.3	22	5.5	2.6	1.0	.31	2.4
10	2.6	3.6	17	9.8	8.4	9.3	25	8.5	2.3	.88	.26	1.9
11	2.6	3.5	12	14	8.3	8.5	19	8.5	2.1	.53	.19	1.5
12	2.6	3.5	9.4	15	8.0	8.0	15	7.3	2.0	.52	.14	1.4
13	2.6	3.5	8.1	12	8.2	7.5	15	13	1.9	.47	.14	1.2
14	2.6	3.5	24	9.6	9.1	7.1	15	9.4	1.7	.42	.12	1.1
15	2.6	3.5	22	9.6	8.2	6.9	14	7.3	1.7	.41	.12	1.0
16	2.6	3.6	17	9.5	7.4	7.2	12	6.3	2.0	.50	.09	.87
17	2.6	3.4	71	8.9	7.3	40	11	5.6	9.4	.77	.08	.79
18	2.6	3.3	53	8.2	7.0	24	10	5.0	7.0	.51	.18	.73
19	2.7	3.3	31	17	8.3	16	9.8	4.4	3.8	.54	.19	.73
20	2.7	3.3	25	16	31	12	9.5	4.1	2.7	1.1	.12	.77
21	2.8	3.1	51	14	22	39	8.9	3.9	4.5	.64	.11	.92
22	2.8	4.1	51	34	25	48	8.6	3.8	10	.44	.08	3.3
23	2.9	4.0	33	29	33	28	8.9	4.3	6.8	.35	.11	2.0
24	2.8	3.9	25	25	21	22	9.4	6.3	5.3	.28	.17	1.4
25	2.9	6.7	26	21	17	18	7.0	8.4	3.7	.28	.17	1.2
26	2.9	6.7	23	18	14	15	7.4	6.3	3.3	.28	.14	1.1
27	2.8	5.5	45	29	13	14	7.1	6.7	3.1	.28	.11	1.1
28	2.8	14	32	26	12	12	6.9	6.2	2.9	.30	.10	1.0
29	4.2	16	25	30	------	11	6.7	6.3	2.7	.28	.23	12
30	21	12	26	23	------	12	6.7	6.9	2.5	.28	1.5	6.2
31	17	------	22	19	------	18	------	5.3	------	.27	1.9	------
TOTAL	122.4	164.7	710.8	536.1	366.6	477.3	372.7	204.2	123.7	27.61	8.09	65.71
MEAN	3.95	5.49	22.9	17.3	13.1	15.4	12.4	6.59	4.12	.89	.26	2.19
MAX	21	16	71	34	33	48	25	13	10	3.0	1.9	12
MIN	2.2	3.1	5.6	8.2	7.0	6.9	6.7	3.8	1.7	.27	.08	.73
CFSM	.98	1.37	5.70	4.30	3.26	3.83	3.09	1.64	1.02	.22	.06	.54
IN.	1.13	1.52	6.58	4.96	3.39	4.42	3.45	1.89	1.14	.26	.07	.61

CAL YR 1973 TOTAL 4,064.39 MEAN 11.1 MAX 93 MIN .89 CFSM 2.76 IN 37.46
WTR YR 1974 TOTAL 3,180.01 MEAN 8.71 MAX 71 MIN .08 CFSM 2.17 IN 29.43

01119040 Poquonock River near Groton, Conn.

LOCATION.--Lat 41°19'00", long 72°03'43", New London County, at pier on east side of Avery Point, University of Connecticut, 2 mi (3 km) south of Groton, at mouth of Poquonock River in Long Island Sound.

PERIOD OF RECORD.--January 1973 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2.02 ft (0.616 m) below mean sea level. Gage-height record converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Stage data in feet at 15-minute intervals available upon request.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum	Elevation	3.06	2.40	-	2.76	3.06	3.54	2.52	2.60	2.82	2.50	2.87	2.67
high tide	Date	26	15	-	11	7	31	9	3	21	20	17	18
	Time	0830	1245	-	1045	0800	0130	2200	1815	2315	2300	2145	1115
Minimum	Elevation	-1.68	-2.22	-	-2.55	-2.79	-2.73	-2.15	-2.83	-1.64	-1.80	-1.63	-1.64
low tide	Date	14	1	-	8	24	10	7	23	21	20	17	16
	Time	1700	2000	-	1600	0600	1700	0400	0300	0515	0500	0345	1615

NOTE.--Time shown is eastern standard. Missing record Nov. 26 to Jan. 3. Faulty record May 23 to June 4.

01119500 Willimantic River near South Coventry, Conn.

LOCATION.--Lat 41°45'02", long 72°15'58", Tolland County, on left bank 700 ft (213 m) upstream from bridge on State Highway 31, 1 mi (2 km) downstream from Mill Brook, 2.4 mi (3.9 km) southeast of South Coventry, 2.8 mi (4.5 km) upstream from Hop River, and 6.3 mi (10.1 km) upstream from mouth.

DRAINAGE AREA.--122 mi² (316 km²).

PERIOD OF RECORD.--September 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 239.05 ft (72.862 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE (adjusted for storage since water year 1961).--43 years, 208 ft³/s (5.891 m³/s), 23.15 in/yr (588 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,470 ft³/s (127 m³/s) Dec. 21, 22, gage height, 10.48 ft (3.194 m); minimum, 19 ft³/s (0.54 m³/s) Aug. 16, gage height, 2.89 ft (0.881 m); minimum daily, 20 ft³/s (0.57 m³/s) Aug. 16.

Period of record: Maximum discharge, 24,200 ft³/s (685 m³/s) Aug. 19, 1955, gage height, 18.66 ft (5.688 m), from floodmark, from rating curve extended above 3,600 ft³/s (102 m³/s) on basis of computation of flow over dam at gage height 12.2 ft (3.72 m), and contracted-opening measurement of peak flow; minimum, 2.0 ft³/s (0.057 m³/s) Aug. 21, 22, 1949, gage height, 1.60 ft (0.488 m); minimum daily, 2.5 ft³/s (0.071 m³/s) Sept. 18, 1949.

PEAK DISCHARGE.--(BASE, 1,100 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-21	2400	10.48	4,470
12-27	0800	6.96	1,150
03-21	2300	8.27	1,950
09-29	0600	6.89	1,110

REMARKS.--Records excellent. Flow regulated by Staffordville Reservoir (see p. 45). High flow regulated by six flood detention reservoirs in Middle River basin, combined usable flood capacity, 305,400,000 ft³, (8,649,000 m³). See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	336	159	475	426	270	350	253	142	51	28	85
2	51	265	135	446	372	288	314	222	180	49	26	79
3	53	206	121	389	346	256	304	216	146	49	41	83
4	69	159	119	371	329	253	365	255	116	60	52	576
5	71	129	159	334	289	256	376	210	97	66	74	317
6	92	117	529	310	272	238	353	186	85	208	45	182
7	75	110	380	303	293	222	291	180	76	163	36	282
8	69	103	270	278	286	206	269	170	66	97	33	272
9	59	103	345	224	267	202	441	164	63	85	39	180
10	56	96	509	266	270	182	476	230	59	40	29	142
11	56	90	370	341	250	166	377	317	55	39	26	117
12	55	87	282	336	255	183	324	255	49	32	25	97
13	52	87	229	264	231	175	328	497	47	27	24	85
14	51	89	375	265	238	167	376	380	44	26	23	114
15	47	87	403	267	218	165	621	288	40	74	22	104
16	45	92	316	258	186	177	466	235	56	87	20	72
17	42	112	769	254	176	679	357	203	164	53	22	74
18	42	97	843	222	168	516	310	184	133	40	85	75
19	47	92	495	367	186	376	333	163	89	36	51	69
20	49	87	405	359	600	305	349	146	66	53	38	65
21	51	83	2,200	357	443	733	300	133	59	70	31	164
22	49	90	2,940	722	449	1,320	272	129	68	50	27	488
23	48	103	1,200	601	622	729	259	130	62	25	32	306
24	52	97	803	585	437	525	251	161	60	24	32	201
25	52	176	562	477	362	434	234	164	55	31	23	146
26	40	195	583	409	309	367	210	148	51	34	21	125
27	41	161	1,090	799	268	334	202	135	49	31	28	108
28	39	208	873	891	251	305	193	123	49	33	34	103
29	53	249	664	791	------	278	187	123	48	34	224	832
30	593	197	580	595	------	283	197	131	42	32	123	619
31	494	------	500	494	------	344	------	121	------	30	129	------
TOTAL	2,645	4,103	19,208	13,050	8,797	10,934	9,691	6,274	2,314	1,785	1,440	6,162
MEAN	85.3	137	620	421	314	353	323	202	77.1	57.6	46.5	205
MAX	593	336	2,940	891	622	1,320	621	497	180	208	224	832
MIN	39	83	119	222	168	165	187	121	40	24	20	65
(†)	+0.2	0	0	0	0	0	0	0	0	0	0	0
MEAN‡	85.5	137	620	421	314	353	323	202	77.1	57.6	46.5	205
CFSM‡	0.70	1.12	5.08	3.45	2.57	2.89	2.65	1.66	0.63	0.47	0.38	1.68
IN‡	0.81	1.25	5.86	3.98	2.68	3.33	2.96	1.91	0.70	0.54	0.44	1.87

CAL YR 1973 TOTAL 97,838 MEAN 268 MAX 3,170 MIN 29 MEAN‡ 268 CFSM‡ 2.20 IN‡ 30.02
WTR YR 1974 TOTAL 86,403 MEAN 237 MAX 2,940 MIN 20 MEAN‡ 237 CFSM‡ 1.94 IN‡ 26.33

†Change in contents in Staffordville Reservoir, equivalent in cubic feet per second.

‡Adjusted for change in contents.

01120500 Safford Brook near Woodstock Valley, Conn.

LOCATION.--Lat 41°55'35", long 72°03'37", Windham County, on right bank at downstream side of bridge on Hopkins Road, 0.3 mi (0.5 km) downstream from Bradford Brook, 0.3 mile (0.5 km) upstream from mouth, 1.2 mi (1.9 km) southeast of Woodstock Valley, and 2 mi (3 km) southwest of West Woodstock.

DRAINAGE AREA.--4.15 mi^2 (10.75 km^2).

PERIOD OF RECORD.--June 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 522.92 ft (159.386 m) above mean sea level.

AVERAGE DISCHARGE.--24 years, 7.94 ft^3/s (0.225 m^3/s), 25.98 in/yr (660 mm/yr).

EXTREMES.--Current year: Maximum discharge, 646 ft^3/s (18.3 m^3/s) Dec. 21, gage height, 6.46 ft (1.969 m); minimum, 0.14 ft^3/s (0.004 m^3/s) Aug. 16, 17, gage height, 1.28 ft (0.390 m).

Period of record: Maximum discharge, 1,000 ft^3/s (28.3 m^3/s) Aug. 19, 1955, gage height, 6.68 ft (2.036 m). No flow Aug. 30, 31, Sept. 6-12, 1965.

PEAK DISCHARGE.--(BASE, 150 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
12-21	1830	6.46	646
03-21	1930	5.08	291
09-29	0500	5.61	402

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.64	6.9	3.6	10	9.0	8.4	11	8.0	4.5	1.7	.26	2.6
2	.62	4.9	2.9	9.0	8.4	8.2	8.4	6.5	4.0	1.5	.23	2.9
3	.63	3.3	2.4	8.0	7.4	6.9	8.0	6.1	3.6	2.3	.29	4.5
4	.63	2.5	2.9	7.5	6.5	7.4	11	7.4	2.5	2.4	.56	18
5	.59	2.3	7.1	7.0	6.1	6.8	11	5.9	2.1	2.4	1.4	6.5
6	.63	2.0	35	6.5	5.4	5.6	10	5.3	1.8	4.6	.80	3.7
7	.59	1.7	18	6.0	5.5	4.9	8.0	5.3	2.0	3.2	.56	9.6
8	.59	1.5	6.0	5.5	5.4	4.3	8.0	6.9	1.6	2.1	.42	7.4
9	.66	1.6	24	5.3	5.1	4.2	23	4.2	1.2	1.3	.36	4.5
10	.82	1.3	27	5.2	4.0	4.3	20	7.4	.92	.80	.30	3.4
11	.77	1.3	10	5.0	4.0	3.6	13	9.4	.76	.62	.32	2.7
12	.67	1.4	8.0	4.9	4.3	3.5	11	7.8	.74	.56	.29	1.9
13	.61	1.1	4.7	4.8	4.3	3.2	11	23	.68	.47	.27	1.6
14	.61	2.1	34	4.7	4.1	3.0	13	10	.58	.44	.24	3.9
15	.61	1.5	18	4.6	4.0	3.0	54	7.4	.76	.42	.23	3.0
16	.58	2.4	8.3	4.5	3.9	4.5	17	5.6	6.5	.76	.17	2.4
17	.58	2.0	60	4.4	3.9	30	11	4.9	10	.60	.26	1.6
18	.56	2.2	34	4.4	3.6	12	8.4	4.3	7.6	.50	.66	1.9
19	.56	1.9	9.6	18	4.0	8.0	11	3.4	4.5	.47	.35	1.5
20	.58	1.6	8.0	16	47	6.3	10	2.9	2.7	.44	.27	1.8
21	.56	1.6	230	18	18	75	7.0	2.4	2.1	.41	.24	11
22	.56	2.7	59	55	31	50	6.4	2.2	2.1	.38	.23	22
23	.56	2.7	16	28	37	15	6.8	2.5	1.7	.32	.23	8.8
24	.53	2.4	11	26	13	11	6.5	3.7	1.7	.29	.27	6.5
25	.53	6.4	8.4	16	9.4	8.4	5.8	4.0	1.9	.30	.23	6.8
26	.53	5.3	20	12	8.2	7.2	5.1	3.4	1.9	.35	.17	6.1
27	.53	3.6	40	64	7.6	7.0	4.8	2.9	1.8	.32	.17	6.1
28	.70	4.6	19	26	6.6	6.5	4.5	2.6	1.8	.32	.88	6.1
29	2.9	8.3	13	24	------	5.4	4.3	2.7	1.5	.32	18	136
30	36	5.2	12	13	------	5.9	4.2	3.2	1.2	.32	6.3	20
31	9.9	------	11	10	------	14	------	3.0	------	.32	4.0	------
TOTAL	65.93	90.9	762.1	433.3	279.1	343.2	333.2	174.5	85.42	32.37	38.96	314.8
MEAN	2.13	3.03	24.6	14.0	9.97	11.1	11.1	5.63	2.85	1.04	1.26	10.5
MAX	36	8.3	230	64	47	75	54	23	10	4.6	18	136
MIN	.53	1.1	2.4	4.4	3.6	3.0	4.2	2.2	.58	.29	.17	1.5
CFSM	.51	.73	5.93	3.37	2.40	2.67	2.67	1.36	.69	.25	.30	2.53
IN.	.59	.81	6.83	3.88	2.50	3.08	2.99	1.56	.77	.29	.35	2.82

CAL YR 1973 TOTAL 3,219.05 MEAN 8.82 MAX 230 MIN .53 CFSM 2.13 IN 28.86
WTR YR 1974 TOTAL 2,953.70 MEAN 8.09 MAX 230 MIN .17 CFSM 1.95 IN 26.48

01121000 Mount Hope River near Warrenville, Conn.

LOCATION.--Lat 41°50'37", long 72°10'10", Windham County, on left bank 250 ft (76 m) downstream from Knowlton Brook, 700 ft (213 m) upstream from bridge on State Highway 89, 1.8 mi (2.9 km) south of Warrenville, and 3.2 mi (5.1 km) southwest of Ashford.

DRAINAGE AREA.--28.6 mi² (74.1 km²).

PERIOD OF RECORD.--July 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 335.57 ft (102.282 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 49.3 ft³/s (1.396 m³/s), 23.41 in/yr (595 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,890 ft³/s (53.5 m³/s) Dec. 21, gage height, 8.12 ft (2.475 m); minimum, 0.70 ft³/s (0.020 m³/s) Aug. 16, 17; gage height, 1.17 ft (0.357 m).

Period of record: Maximum discharge, 5,590 ft³/s (158 m³/s) Aug. 19, 1955, gage height, 10.41 ft (3.173 m), from rating curve extended above 890 ft³/s (25.2 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 0.15 ft³/s (0.004 m³/s) Aug. 25, 1957; minimum gage height, 0.99 ft (0.302 m) Aug. 26-29, 1949.

Flood of September 1938 reached a stage of about 14.5 ft (4.42 m), from floodmarks.

PEAK DISCHARGE.--(BASE, 430 ft³/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-21	2000	8.12	1,890	03-21	2100	6.91	1,040
01-22	0900	4.80	480	08-28	2400	5.40	515
01-27	1900	5.30	490	09-29	0700	7.50	1,370

REMARKS.--Records good. Occasional regulation from ponds upstream. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	68	30	107	90	79	89	70	41	8.3	1.9	16
2	6.5	49	26	103	81	77	73	49	40	6.1	1.6	21
3	7.2	35	25	62	74	67	71	53	27	9.7	2.1	29
4	8.4	27	24	79	75	69	94	63	21	8.5	6.2	103
5	8.1	22	44	80	77	67	90	48	17	17	10	51
6	8.8	20	196	81	65	58	83	42	14	22	4.9	25
7	8.3	18	89	62	59	55	60	43	12	11	3.3	86
8	8.0	18	62	57	56	51	60	40	11	7.2	2.9	51
9	7.2	15	95	62	52	48	142	36	10	5.7	2.6	27
10	6.4	15	151	61	51	49	127	59	9.3	4.5	2.5	19
11	6.7	14	81	83	49	43	97	65	8.3	3.6	1.9	16
12	6.0	14	62	76	48	47	78	53	7.4	3.1	1.7	21
13	6.1	14	51	59	58	39	91	150	7.1	3.0	1.2	17
14	6.8	14	120	58	52	41	100	76	6.2	3.1	1.1	78
15	7.2	14	113	57	45	37	274	58	5.4	7.4	.91	33
16	6.6	16	76	54	45	43	137	48	8.6	5.1	.84	23
17	6.3	20	201	54	41	205	97	42	40	4.0	2.2	14
18	5.9	16	292	54	39	125	83	37	21	3.3	11	14
19	6.4	16	167	105	52	83	88	31	12	4.2	3.9	12
20	6.3	14	119	123	271	70	84	27	9.9	3.9	2.4	10
21	6.5	14	704	77	126	306	70	25	9.6	3.0	1.8	57
22	6.2	23	563	303	174	484	65	24	12	2.6	1.4	163
23	5.5	26	243	211	234	107	62	27	9.6	2.2	1.7	52
24	5.0	18	155	203	120	133	58	33	10	1.9	1.8	29
25	5.2	56	121	134	91	100	54	34	8.1	2.6	1.6	21
26	5.3	42	139	107	88	87	51	29	7.9	3.0	1.4	18
27	5.5	31	320	248	74	88	47	29	7.8	3.0	1.2	16
28	7.7	51	205	204	67	72	44	25	7.5	3.0	29	12
29	14	56	144	225	------	63	42	26	7.2	2.0	224	663
30	242	37	139	154	------	68	40	28	6.6	2.7	66	284
31	100	------	114	110	------	110	------	22	------	2.4	32	------
TOTAL	544.1	787	5,047	3,601	2,346	3,019	2,560	1,392	414.5	169.9	427.25	1,978
MEAN	17.6	26.2	163	116	83.8	97.4	85.3	44.9	13.8	5.48	13.8	65.9
MAX	242	68	704	303	271	484	274	150	41	22	224	663
MIN	5.0	14	24	54	39	37	40	22	5.4	1.9	.84	10
CFSM	.62	.92	5.70	4.06	2.93	3.41	2.98	1.57	.48	.19	.48	2.30
IN.	.71	1.02	6.56	4.68	3.05	3.93	3.34	1.81	.54	.22	.56	2.57

CAL YR 1973 TOTAL 22,224.00 MEAN 60.9 MAX 704 MIN 3.2 CFSM 2.13 IN 28.91
WTR YR 1974 TOTAL 22,274.75 MEAN 61.0 MAX 704 MIN .84 CFSM 2.13 IN 28.97

01122000 Natchaug River at Willimantic, Conn.

LOCATION.--Lat 41°43'14", long 72°11'52", Windham County, on right bank 200 ft (60 m) downstream from Penn. Central Co. railroad bridge, 500 ft (150 m) upstream from bridge on U.S. Highway 6, 1 mi (2 km) northeast of Willimantic, 1.7 mi (2.7 km) upstream from mouth, and 3.6 mi (5.8 km) downstream from Mansfield Hollow dam.

DRAINAGE AREA.--171 mi² (443 km²).

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Nonrecording gage. Datum of gage is 150.31 ft (45.814 m) above mean sea level (levels by Corps of Engineers). Prior to June 6, 1974, water-stage recorder at same site and datum.

AVERAGE DISCHARGE (adjusted for storage).--44 years, 295 ft³/s (8.354 m³/s), 23.42 in/yr (595 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,570 ft³/s (72.8 m³/s) Mar. 22, gage height, 7.60 ft (2.316 m); minimum not determined; probably occurred during period of no gage-height record.

Period of record: Maximum discharge, 32,000 ft³/s (906 m³/s) Sept. 21, 1938, gage height, 16.39 ft (4.996 m), from floodmarks, by computation of peak flow over dam 2 mi (3 km) upstream; minimum, about 0.3 ft³/s (0.08 m³/s) Aug. 6, 1937; minimum daily, 2.3 ft³/s (0.065 m³/s) Sept. 11, 12, 1943.

REMARKS.--Records excellent except those for period of no gage-height record June 6 to Sept. 30, which are fair. City of Willimantic diverts an average of about 1.8 mgd (0.079 m³/s) for municipal supply from reservoirs 2 mi (3 km) upstream. Operation of water wheels at this location causes diurnal fluctuation at low flow. Flow regulated since March 1952 by Mansfield Hollow Lake (see station 01121500). See REVISIONS summary paragraph in WSP 1901. Records of water quality for the current year are published in Part 2 of this report under station number 01122001.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	447	219	783	639	371	509	275	47	58	37	204
2	60	445	285	609	494	387	462	290	98	58	36	161
3	65	266	153	603	441	386	423	285	105	58	48	150
4	73	209	184	530	465	375	432	315	75	61	37	547
5	67	157	165	408	439	368	496	302	75	62	71	653
6	64	155	605	413	337	357	492	271	82	138	71	431
7	60	152	709	416	316	340	442	256	95	121	56	398
8	56	125	444	394	323	322	384	242	88	93	48	489
9	55	74	394	388	322	303	450	223	85	82	37	362
10	56	88	715	368	309	288	703	222	80	70	38	322
11	49	119	653	371	304	271	654	294	77	60	37	268
12	50	119	481	394	291	252	551	319	72	52	36	185
13	50	114	366	390	288	226	447	476	63	46	34	58
14	48	108	427	400	288	185	535	545	58	42	30	63
15	46	95	721	366	271	176	880	440	50	36	28	149
16	45	86	600	366	256	186	996	355	47	56	26	105
17	47	102	779	339	255	260	832	350	64	50	24	72
18	47	117	1,340	367	214	388	633	491	59	41	40	68
19	42	117	1,220	333	213	410	545	484	45	38	61	56
20	42	113	662	459	521	359	534	307	37	43	47	35
21	42	104	863	624	968	539	484	132	41	30	36	19
22	41	93	461	930	1,150	1,340	438	153	54	29	35	160
23	51	85	1,150	1,230	1,160	2,360	406	157	52	35	40	307
24	92	96	1,740	1,170	1,070	1,730	327	162	52	33	45	244
25	97	162	1,810	1,050	628	877	256	159	55	40	43	153
26	57	310	1,960	911	358	518	285	157	60	37	36	119
27	34	270	2,270	946	367	312	285	247	65	37	28	83
28	33	214	2,360	1,390	366	381	274	762	67	36	26	88
29	50	225	2,080	1,410	------	385	264	280	63	37	313	954
30	484	275	1,390	1,270	------	379	253	74	62	38	431	1,860
31	432	------	1,140	1,020	------	447	------	83	------	38	307	------
TOTAL	3,002	5,190	28,191	20,570	13,069	15,533	14,716	9,114	2,023	1,655	2,184	8,760
MEAN	96.8	173	909	664	467	501	491	294	67.4	53.4	70.5	292
MAX	432	447	2,360	1,410	1,160	2,360	996	762	105	138	431	1,860
MIN	33	74	184	333	213	176	253	74	37	29	24	19
(*)	0	-3.5	+17.4	-0.6	+3.8	+27.7	-4.8	-39.9	+35.8	-2.2	+9.8	-6.3
MEAN‡	96.8	170	926	663	471	529	486	254	103	51.2	80.3	286
CFSM‡	0.57	0.99	5.42	3.88	2.75	3.09	2.84	1.49	0.60	0.30	0.47	1.67
IN‡	0.66	1.10	6.25	4.47	2.86	3.56	3.17	1.72	0.67	0.35	0.54	1.86

CAL YR 1973 TOTAL 129,708 MEAN 355 MAX 2,570 MIN 33 MEAN‡ 356 CFSM‡ 2.08 IN‡ 28.26
WTR YR 1974 TOTAL 124,025 MEAN 340 MAX 2,360 MIN 19 MEAN‡ 343 CFSM‡ 2.01 IN‡ 27.21

*Change in contents in Mansfield Hollow Lake, equivalent in cubic feet per second; furnished by Corps of Engineers.
‡Adjusted for change in contents.

01122500 Shetucket River near Willimantic, Conn.

LOCATION.--Lat 41°42'01", long 72°10'57", Windham County, on right bank at downstream side of Bingham Bridge on Plains Road, 500 ft (150 m) upstream from Penn. Central Co. railroad bridge, 500 ft (150 m) downstream from Potash Brook, 1.3 mi (2.1 km) downstream from confluence of Willimantic and Natchaug Rivers, 1.5 mi (2.4 km) southeast of Willimantic, and 17 mi (27 km) upstream from mouth.

DRAINAGE AREA.--402 mi^2 (1,041 km^2).

PERIOD OF RECORD.--April 1904 to December 1905, October 1919 to September 1921, September 1928 to current year. Published as "at South Windham" October 1919 to September 1921, September 1928 to September 1933. Monthly discharge only for some periods, published in WSP 1301.

GAGE.--Water-stage recorder since Dec. 5, 1933. Datum of gage is 131.40 ft (40.051 m) above mean sea level (levels by Corps of Engineers). Apr. 4, 1904, to Dec. 31, 1905, nonrecording gage at present site and about the same datum. October 1919 to Sept. 30, 1921, and Sept. 1, 1928 to Sept. 30, 1933, water-stage recorder at site 1.5 mi (2.4 km) downstream at different datum.

AVERAGE DISCHARGE (adjusted for storage).--49 years, 696 ft^3/s (19.71 m^3/s), 23.52 in/yr (597 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,320 ft^3/s (236 m^3/s) Dec. 22, gage height, 10.81 ft (3.295 m); minimum, 50 ft^3/s (1.42 m^3/s) Aug. 17, gage height, 1.58 ft (0.482 m); minimum daily discharge, 53 ft^3/s (1.50 m^3/s) Aug. 16, 17.

Period of record: Maximum discharge, 52,200 ft^3/s (1,480 m^3) Sept. 21, 1938, gage height, 27.6 ft (8.41 m), from floodmarks, from rating curve extended above 11,000 ft^3/s (312 m^3/s) on basis of computation of peak flow over Scotland and Baltic Dams, 5 and 9 mi (8 and 14 km) downstream, respectively, adjusted for flow from intervening area; minimum, 15 ft^3/s (0.42 m^3/s) Aug. 29, 1949, gage height, 1.34 ft (0.408 m); minimum daily, 19 ft^3/s (0.54 m^3/s) Aug. 22, Oct. 24, 1949.

REMARKS.--Records good. Flow regulated by mills and flood detention reservoirs on Willimantic River, on Natchaug River by pumping for municipal supply of city of Willimantic, and by Mansfield Hollow Lake (see station 01121500). Records of water quality for the current year are published in Part 2 of this report. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	201	1,450	589	1,860	1,630	1,050	1,390	800	415	183	85	397
2	187	1,110	516	1,640	1,340	1,100	1,220	820	522	180	79	331
3	185	784	427	1,490	1,250	1,030	1,160	800	446	180	112	327
4	206	616	350	1,380	1,200	1,010	1,310	930	359	204	107	1,380
5	206	487	477	1,170	1,070	1,000	1,450	830	312	201	180	1,200
6	225	450	1,760	1,140	993	947	1,370	740	291	562	152	722
7	216	423	1,630	1,110	955	895	1,170	730	270	415	121	813
8	202	379	1,080	1,040	918	851	1,040	690	253	287	107	970
9	186	314	1,130	889	899	805	1,540	630	244	228	96	737
10	179	321	2,120	949	855	775	2,080	725	234	186	85	688
11	171	334	1,580	1,110	852	720	1,710	910	222	155	79	613
12	167	325	1,190	1,170	820	707	1,420	885	210	131	75	474
13	162	322	933	1,060	817	656	1,300	1,460	186	117	70	216
14	163	318	1,260	994	863	592	1,520	1,460	177	107	63	260
15	157	302	1,690	968	809	573	2,560	1,120	171	149	58	451
16	154	294	1,320	938	733	611	2,320	918	204	207	53	323
17	150	345	2,210	911	724	1,840	1,790	829	410	163	53	250
18	149	346	3,580	803	660	1,710	1,460	941	359	136	136	244
19	147	330	2,310	1,130	679	1,340	1,350	866	260	126	129	210
20	151	320	1,600	1,350	2,190	1,110	1,390	683	204	152	96	155
21	153	289	3,780	1,460	2,230	1,920	1,220	460	210	136	81	210
22	151	281	7,220	2,760	2,240	5,050	1,100	451	247	114	73	861
23	156	288	4,110	2,880	2,940	4,110	1,030	460	225	100	85	988
24	202	293	3,430	2,770	2,220	2,950	923	537	210	92	92	732
25	221	497	2,930	2,280	1,550	1,930	813	547	204	112	81	465
26	166	723	2,970	1,960	1,160	1,410	808	508	201	107	70	363
27	136	569	4,210	2,490	1,070	1,110	783	552	201	100	66	267
28	127	669	4,090	3,410	1,020	1,110	752	1,070	198	98	70	253
29	174	775	3,490	3,120	------	1,050	722	613	189	98	659	2,300
30	1,730	679	2,670	2,630	------	1,040	730	388	180	94	718	3,220
31	2,120	------	2,250	2,140	------	1,320	------	371	------	90	567	------
TOTAL	8,900	14,633	68,902	51,002	34,687	42,322	39,431	23,724	7,814	5,210	4,498	20,420
MEAN	287	488	2,223	1,645	1,239	1,365	1,314	765	260	168	145	681
MAX	2,120	1,450	7,220	3,410	2,940	5,050	2,560	1,460	522	562	718	3,220
MIN	127	281	350	803	660	573	722	371	171	90	53	155
(†)	0	-3.5	+17.4	-0.6	+3.8	+27.7	-4.8	-39.9	+35.8	-2.2	+9.8	-6.3
MEAN‡	287	484	2,240	1,644	1,243	1,393	1,309	725	296	166	155	675
CFSM‡	0.71	1.20	5.57	4.09	3.09	3.47	3.26	1.80	0.74	0.41	0.39	1.68
IN‡	0.82	1.34	6.42	4.72	3.22	4.00	3.64	2.08	0.83	0.47	0.45	1.87

CAL YR 1973 TOTAL 346,381 MEAN 949 MAX 7,530 MIN 106 MEAN‡ 950 CFSM‡ 2.36 IN‡ 32.07
WTR YR 1974 TOTAL 321,543 MEAN 881 MAX 7,220 MIN 53 MEAN‡ 884 CFSM‡ 2.20 IN‡ 29.86

†Change in contents in Mansfield Hollow Lake, equivalent in cubic feet per second, furnished by Corps of Engineers.

‡Adjusted for change in contents.

01123000 Little River near Hanover, Conn.

LOCATION.--Lat 41°40'18", long 72°03'10", Windham County, on left bank 800 ft (240 m) upstream from bridge on Hannance Road, 0.7 mi (1.1 km) downstream from Peck Brook, 2.3 mi (3.7 km) northeast of Hanover, and 6.5 mi (10.5 km) upstream from mouth.

DRAINAGE AREA.--30.4 mi² (78.7 km²).

PERIOD OF RECORD.--July 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 221.19 ft (67.419 m) above mean sea level.

AVERAGE DISCHARGE.--23 years, 61.5 ft³/s (1.742 m³/s), 27.47 in/yr (698 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,030 ft³/s (29.2 m³/s) Mar. 22, gage height, 5.57 ft (1.698 m); minimum, 7.0 ft³/s (0.20 m³/s), Aug. 15, 16, 21; minimum gage height, 1.14 ft (0.347 m) Aug. 16, 21.

Period of record: Maximum discharge, 1,710 ft³/s (48.4 m³/s) Apr. 3, 1970, gage height, 7.02 ft (2.140 m), from rating curve extended above 820 ft³/s (23.2 m³/s); minimum, 3.2 ft³/s (0.091 m³/s) Aug. 16, 1959, gage height, 1.00 ft (0.305 m), caused by a minor and temporary regulation from an unknown source upstream.

PEAK DISCHARGE.--(BASE, 400 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-18	0100	3.92	439
12-22	0400	4.55	633
02-20	1300	4.50	616
03-22	0400	5.57	1030

REMARKS.--Records good except those for period of no gage-height record June 22 to July 12, which are fair. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	65	32	104	91	82	92	54	52	17	11	32
2	17	55	28	95	81	79	78	50	56	17	8.7	19
3	14	40	25	81	77	74	75	53	42	20	32	23
4	13	32	24	80	74	73	87	72	36	20	19	51
5	12	28	30	79	70	70	87	57	32	35	13	40
6	10	25	130	74	65	64	79	50	30	65	11	21
7	11	23	79	66	65	60	70	50	28	35	9.4	15
8	11	20	54	61	68	58	64	47	26	25	9.8	12
9	10	19	74	84	63	55	134	44	27	20	8.8	11
10	9.7	18	130	76	75	58	160	63	31	16	8.6	11
11	9.6	17	75	73	56	54	119	78	25	14	8.0	12
12	9.6	17	58	79	61	54	95	66	22	10	7.6	9.9
13	20	16	46	80	54	49	90	150	20	9.8	7.4	8.9
14	17	16	130	70	61	47	104	93	18	9.4	7.2	8.7
15	13	17	127	60	55	46	329	71	18	14	7.0	9.0
16	11	17	78	58	55	48	182	60	96	14	7.2	9.0
17	9.1	19	249	57	49	199	119	52	165	13	11	8.5
18	9.2	18	309	68	47	126	97	46	77	11	10	8.0
19	9.8	16	120	108	66	87	89	42	45	11	8.2	7.5
20	9.4	16	90	130	518	73	83	39	34	12	7.6	8.5
21	9.8	15	308	111	232	292	80	36	45	10	7.3	20
22	9.4	15	442	331	185	664	72	35	60	9.8	7.9	51
23	12	17	164	219	262	207	69	38	20	9.4	9.1	30
24	10	16	124	200	137	144	69	46	18	36	8.0	18
25	9.4	32	100	142	106	112	63	49	17	37	7.6	14
26	9.4	33	105	116	95	92	60	45	17	24	12	12
27	9.4	28	236	197	83	86	57	39	17	16	25	11
28	9.1	43	160	184	79	78	55	37	16	13	22	11
29	15	54	119	170	------	71	54	39	16	13	14	179
30	146	39	130	129	------	73	51	40	15	13	15	109
31	91	------	110	106	------	107	------	37	------	12	31	------
TOTAL	566.9	786	3,886	3,488	2,930	3,382	2,863	1,678	1,121	581.4	371.4	780.0
MEAN	18.3	26.2	125	113	105	109	95.4	54.1	37.4	18.8	12.0	26.0
MAX	146	65	442	331	518	664	329	150	165	65	32	179
MIN	9.1	15	24	57	47	46	51	35	15	9.4	7.0	7.5
CFSM	.60	.86	4.11	3.72	3.45	3.59	3.14	1.78	1.23	.62	.39	.86
IN.	.69	.96	4.76	4.27	3.59	4.14	3.50	2.05	1.37	.71	.45	.95

CAL YR 1973 TOTAL 24,170.9 MEAN 66.2 MAX 1,200 MIN 9.1 CFSM 2.18 IN 29.58
WTR YR 1974 TOTAL 22,433.7 MEAN 61.5 MAX 664 MIN 7.0 CFSM 2.02 IN 27.45

01124000 Quinebaug River at Quinebaug, Conn.

LOCATION.--Lat 42°01'20", long 71°57'22", Windham County, on right bank at Quinebaug, 500 ft (152 m) upstream from bridge on State Highway 197, 0.2 mi (0.3 km) downstream from Massachusetts-Connecticut State line, 7.8 mi (12.6 km) upstream from French River, and at mile 46 (74 km).

DRAINAGE AREA.--156 mi^2 (404 km^2).

PERIOD OF RECORD.--September 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 341.52 ft (104.095 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage).--43 years, 267 ft^3/s (7.561 m^3/s), 23.26 in/yr (591 mm/yr).

EXTREMES.--Maximum discharge, 2,650 ft^3/s (75.0 m^3/s) Dec. 21, gage height, 6.26 ft (1.908 m); minimum, 3.1 ft^3/s, regulated, (0.088 m^3/s) Aug. 17, gage height, 1.90 ft (0.579 m).

Period of record: Maximum discharge, 49,300 ft^3/s (1,400 m^3/s) Aug. 19, 1955, gage height, 18.96 ft (5.779 m), from floodmarks, from rating curve extended above 5,100 ft^3/s (144 m^3/s) on basis of slope-area measurement of peak flow; minimum, about 1 ft^3/s (0.028 m^3/s) Sept. 9, 1943, July 12, 1949, Sept. 17, 18, 1950, July 9, 1951, Sept. 4 and Oct. 29, 1956; minimum daily, about 1 ft^3/s (0.028 m^3/s) Sept. 4, 1956; minimum gage height, 1.74 ft (0.530 m) Aug. 20, 1940.

REMARKS.--Records good. Flow regulated by East Brimfield and Westville Lakes, (see p. 45), and by smaller reservoirs upstream. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	302	170	1,020	757	408	483	275	185	65	24	29
2	80	254	148	672	611	394	462	262	203	56	22	29
3	116	199	135	580	522	366	450	250	192	85	44	47
4	132	157	123	542	493	361	493	270	168	100	25	277
5	145	127	146	484	457	358	478	247	142	125	26	200
6	140	109	372	448	424	337	461	227	119	224	22	183
7	132	95	343	419	392	318	419	225	103	217	23	244
8	127	83	306	382	377	295	379	214	87	191	21	229
9	118	77	330	352	356	270	434	198	78	148	19	188
10	64	71	436	340	343	264	458	246	73	111	18	147
11	58	68	384	330	311	243	442	300	65	82	16	111
12	58	75	338	320	292	228	466	294	58	62	15	83
13	43	73	293	320	277	217	473	530	51	46	14	62
14	43	65	360	320	291	206	500	474	44	41	14	71
15	40	59	416	313	273	196	636	415	37	69	14	58
16	106	61	371	297	245	208	611	351	121	49	13	45
17	92	56	683	285	235	601	536	302	256	54	6.8	37
18	80	53	830	278	223	605	464	263	213	50	13	53
19	74	49	604	320	222	557	461	224	166	46	12	36
20	48	45	578	370	548	478	447	202	132	41	12	32
21	44	43	1,620	422	535	759	411	181	112	34	11	131
22	43	51	1,390	654	638	1,190	373	174	112	29	12	280
23	45	53	1,220	673	888	1,240	350	172	100	27	9.6	268
24	42	55	1,240	717	759	1,010	334	179	91	23	12	263
25	28	102	1,130	664	677	678	319	208	77	18	9.2	221
26	27	112	1,240	593	583	595	296	204	71	23	9.6	171
27	25	113	1,360	1,010	471	525	275	190	63	25	10	130
28	24	155	1,480	1,100	417	458	256	178	67	24	14	112
29	29	188	1,420	1,110	------	406	241	171	65	26	38	980
30	277	182	1,340	1,180	------	390	229	167	61	27	28	862
31	328	------	1,230	1,030	------	484	------	156	------	26	33	------
TOTAL	2,681	3,132	22,036	17,545	12,617	14,645	12,637	7,749	3,312	2,144	560.2	5,579
MEAN	86.5	104	711	566	451	472	421	250	110	69.2	18.1	186
MAX	328	302	1,620	1,180	888	1,240	636	530	256	224	44	980
MIN	24	43	123	278	222	196	229	156	37	18	6.8	29
(†)	+2.1	-1.5	+25.4	-15.5	-6.9	0	-2.9	-0.8	-2.1	-0.7	+0.7	+9.7
Mean‡	88.6	102	736	550	444	472	418	249	108	68.5	18.8	196
CFSM‡	0.568	0.654	4.72	3.53	2.85	3.03	2.68	1.60	0.692	0.439	0.121	1.26
IN‡	0.66	0.73	5.44	4.07	2.97	3.49	2.99	1.84	0.77	0.51	0.14	1.41

CAL YR 1973 TOTAL 121,134.0 MEAN 332 MAX 1,750 MIN 24 MEAN‡ 334 CFSM‡ 2.14 IN‡ 29.02
WTR YR 1974 TOTAL 104,637.2 MEAN 287 MAX 1,620 MIN 6.8 MEAN‡ 288 CFSM‡ 1.85 IN‡ 25.02

†Change in contents in East Brimfield and Westville Lakes, equivalent in cubic feet per second; furnished by Corps of Engineers.

‡Adjusted for change in contents.

01124151 Quinebaug River at West Thompson, Conn.

LOCATION.--Lat 41°56'36", long 71°54'03", Windham County, on left bank near downstream end of tailrace, upstream from concrete V-notch weir at flood-control dam at West Thompson.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 291.00 ft (88.700 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage and diversion).--8 years, 303 ft³/s (8.581 m³/s), 23.92 in/yr (608 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,070 ft³/s (58.6 m³/s) Mar. 22, gage height, 6.37 ft (1.942 m); minimum daily, 17 ft³/s (0.48 m³/s) Aug. 15, 17, 27.

Period of record: Maximum discharge, 2,070 ft³/s (58.6 m³/s) Mar. 22, 1974, gage height, 6.37 ft (1.942 m); minimum daily, 12 ft³/s (0.34 m³/s) Aug. 28, 1970. No flow many days 1970, 1972 (regulation).

Flood of Aug. 19, 1955, reached a discharge of about 48,200 ft³/s (1,360 m³/s), by comparison of peak flows at Quinebaug and Putnam, gage height, 20.1 ft (6.13 m) from floodmarks.

REMARKS.--Records good. Flow regulated by East Brimfield, Westville, and West Thompson Lakes (see p. 45), and by smaller reservoirs upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	337	190	1,130	940	450	562	316	187	77	27	58
2	85	310	173	800	640	463	558	333	211	75	25	59
3	93	248	154	589	580	452	553	317	211	75	32	60
4	115	192	143	500	539	441	557	333	204	99	37	173
5	133	152	140	450	455	438	564	325	183	106	39	197
6	144	130	310	425	424	423	560	300	158	179	34	199
7	142	114	403	400	400	393	532	287	101	211	31	260
8	135	101	360	375	380	372	483	280	46	201	30	295
9	130	92	341	360	360	345	499	262	97	170	27	230
10	115	85	476	350	356	330	563	268	423	134	24	199
11	70	80	455	330	346	315	548	333	268	103	22	132
12	74	79	406	320	344	298	539	338	64	82	21	100
13	66	79	353	310	336	279	540	515	29	65	20	100
14	58	80	392	300	332	254	569	569	25	51	19	129
15	54	70	504	290	331	247	688	509	25	54	17	106
16	69	74	451	280	326	242	727	454	25	59	18	149
17	92	73	558	280	326	503	662	382	63	58	17	88
18	91	69	815	273	327	669	585	339	200	56	24	74
19	90	67	838	277	328	649	531	300	207	52	24	71
20	78	63	719	373	326	586	547	261	175	48	21	60
21	65	60	810	502	600	505	507	235	148	42	20	87
22	60	59	1,190	675	800	1,370	477	217	136	38	19	250
23	59	65	1,420	727	1,000	1,880	445	210	126	24	18	296
24	58	66	1,620	759	800	1,360	427	208	118	19	18	294
25	52	90	1,620	749	651	888	396	214	108	22	19	264
26	45	114	1,590	689	660	687	367	222	96	18	18	222
27	41	116	1,630	739	595	553	343	216	87	22	17	175
28	38	130	1,650	1,110	458	535	325	209	81	24	20	143
29	38	122	1,560	1,260	------	514	308	204	79	25	63	591
30	142	140	1,480	1,400	------	488	297	199	78	27	61	893
31	330	------	1,320	1,290	------	531	------	193	------	27	58	------
TOTAL	2,861	3,457	24,071	18,312	13,960	17,460	15,259	9,348	3,959	2,243	840	5,954
MEAN	92.3	115	776	591	499	563	509	302	132	72.4	27.1	198
MAX	330	337	1,650	1,400	1,000	1,880	727	569	423	211	63	893
MIN	38	59	140	273	326	242	297	193	25	18	17	58
(†)	+6.0	-4.4	+29.3	-13.2	-9.1	+0.8	-6.6	-3.1	-4.5	-1.5	+1.5	+28.1
MEAN‡	98.3	111	805	578	490	564	502	299	128	70.9	28.6	226
CFSM‡	0.572	0.645	4.68	3.36	2.85	3.28	2.92	1.74	0.744	0.412	0.166	1.31
IN‡	0.66	0.72	5.40	3.87	2.97	3.78	3.26	2.01	0.83	0.48	0.19	1.46

CAL YR 1973 TOTAL 140,618 MEAN 385 MAX 2,010 MIN 13 MEAN‡ 387 CFSM‡ 2.25 IN‡ 30.55
WTR YR 1974 TOTAL 117,726 MEAN 323 MAX 1,880 MIN 17 MEAN‡ 325 CFSM‡ 1.89 IN‡ 25.63

†Change in contents in East Brimfield, Westville, and West Thompson Lakes, equivalent in cubic feet per second; furnished by Corps of Engineers.

‡Adjusted for change in contents.

01126600 Blackwell Brook near Brooklyn, Conn.

LOCATION.--Lat 41°45'55", long 71°57'25", Windham County, on left bank 75 ft (23 m) upstream from bridge on State Highway 169, 1.5 mi (2.4 km) south of Brooklyn.

DRAINAGE AREA.--17.0 mi² (44.0 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961-63, and annual maximum, water years 1962-63. October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 137.03 ft (41.767 m) above mean sea level. Sept. 8, 1961 to Oct. 28, 1963, crest-stage gage at bridge 75 ft (23 m) downstream at same datum.

AVERAGE DISCHARGE.--11 years, 29.4 ft³/s (0.833 m³/s), 23.48 in/yr (596 mm/yr).

EXTREMES.--Current year: Maximum discharge, 805 ft³/s (22.8 m³/s) Mar. 22, gage height, 6.74 ft (2.054 m); minimum, 1.0 ft³/s (0.028 m³/s) Oct. 10; minimum gage height, 0.69 ft (0.210 m) Aug. 25.

Period of record: Maximum discharge, 1,100 ft³/s (31.2 m³/s) Apr. 2, 1970, gage height, 7.76 ft (2.365 m); minimum recorded, 0.40 ft³/s (0.011 m³/s) Sept. 8, 1964, Aug. 17, 1970; minimum gage height, 0.63 ft (0.192 m) Sept. 8, 1964.

PEAK DISCHARGE.--(BASE, 250 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-17	2400	4.38	317
12-21	2300	4.99	428
02-20	1000	4.91	412
03-22	0100	6.74	805
04-15	Time unknown	4.24	296

REMARKS.--Records excellent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	26	15	52	46	41	58	38	24	9.2	3.1	10
2	3.1	24	12	49	40	40	46	27	28	8.2	3.2	8.5
3	3.5	16	12	42	37	37	43	30	20	9.2	10	12
4	4.5	13	10	40	36	36	50	35	16	10	4.7	25
5	4.6	11	15	40	34	35	51	30	13	7.5	4.1	19
6	4.4	10	57	36	30	32	45	22	10	6.9	4.1	11
7	3.9	9.2	40	33	32	30	38	22	9.2	6.0	3.8	24
8	3.8	8.5	27	30	30	29	35	20	8.5	5.5	3.6	30
9	7.0	8.2	33	27	29	27	107	18	8.2	5.0	3.4	16
10	1.3	7.5	60	30	27	26	98	31	7.5	4.7	3.3	11
11	2.1	7.2	34	35	27	26	67	38	6.9	4.3	3.1	8.5
12	3.3	7.2	30	37	26	23	57	33	6.3	4.0	2.9	7.2
13	3.3	7.2	25	31	27	21	58	85	6.0	3.9	2.9	6.6
14	3.4	6.9	62	29	30	21	98	50	5.5	3.6	2.7	9.2
15	3.3	6.9	64	30	24	21	220	36	5.2	4.3	2.6	7.5
16	3.4	7.5	41	30	27	23	87	30	29	4.9	2.5	6.0
17	3.4	8.5	149	28	24	109	70	26	104	4.4	2.6	5.2
18	3.5	7.8	219	26	25	65	50	23	47	3.9	3.4	4.9
19	3.2	7.5	71	53	38	42	54	20	24	4.1	3.5	4.7
20	3.5	6.9	46	61	335	36	53	17	16	4.4	3.3	4.7
21	3.6	6.6	220	61	143	217	47	16	16	4.1	3.1	7.5
22	4.6	7.5	257	216	100	431	43	16	24	3.6	2.9	25
23	3.9	7.8	87	131	153	136	41	17	16	3.5	2.9	16
24	3.5	7.5	55	115	71	80	40	23	15	3.3	3.0	9.6
25	3.1	17	46	74	55	55	38	23	12	3.9	2.9	7.5
26	3.2	16	52	59	49	55	34	19	11	3.9	2.9	6.9
27	3.0	13	140	114	43	50	30	20	11	3.8	2.8	6.3
28	2.8	20	89	110	41	46	27	17	11	3.8	2.8	5.8
29	3.7	26	60	93	------	41	26	17	10	3.6	26	133
30	43	18	66	64	------	41	23	19	8.9	3.5	23	74
31	37	------	59	53	------	56	------	16	------	3.2	16	------
TOTAL	183.7	346.4	2,159	1,829	1,584	1,928	1,734	834	529.2	154.2	161.1	522.6
MEAN	5.93	11.5	69.6	59.0	56.6	62.2	57.8	26.9	17.6	4.97	5.20	17.4
MAX	43	26	257	216	335	431	220	85	104	10	26	133
MIN	1.3	6.6	10	26	24	21	23	16	5.2	3.2	2.5	4.7
CFSM	.35	.68	4.09	3.47	3.33	3.66	3.40	1.58	1.04	.29	.31	1.02
IN.	.40	.76	4.72	4.00	3.47	4.22	3.79	1.82	1.16	.34	.35	1.14

CAL YR 1973 TOTAL 12,717.9 MEAN 34.8 MAX 651 MIN 1.3 CFSM 2.05 IN 27.83
WTR YR 1974 TOTAL 11,965.2 MEAN 32.8 MAX 431 MIN 1.3 CFSM 1.93 IN 26.18

01127000 Quinebaug River at Jewett City, Conn.

LOCATION.--Lat 41°35'52", long 71°59'05", New London County, on left bank behind high school on Slater Avenue at Jewett City, 570 ft (174 m) downstream from outlet of canal from Wedgewood Mills at mouth of Pachaug River, 1,000 ft (305 m) downstream from railroad bridge and at mile 6.1 (9.8 km).

DRAINAGE AREA.--715 mi² (1,852 km²).

PERIOD OF RECORD.--July 1918 to current year.

GAGE.--Water-stage recorder. Datum of gage is 63.07 ft (19.224 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage).--56 years, 1,245 ft³/s (35.26 m³/s), 23.66 in/yr (601 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,290 ft³/s (235 m³/s) Mar. 22, gage height, 13.56 ft (4.133 m); minimum, 82 ft³/s (2.32 m³/s) Oct. 3, gage height, 4.00 ft (1.219 m); minimum daily, 120 ft³/s (3.40 m³/s) Aug. 28.

Period of record: Maximum discharge, 40,700 ft³/s (1,150 m³/s) Aug. 20, 1955, gage height, 29.0 ft (8.84 m) from floodmarks, from rating curve extended above 11,000 ft³/s (312 m³/s) by computation of peak flows over three nearby dams at gage heights 21.7 ft (6.61 m), 22.5 ft (6.86 m), 24.0 ft (7.32 m), and 29.0 ft (8.84 m); minimum, 16 ft³/s (0.45 m³/s) Sept. 25, 1948, Nov. 18, 1950; minimum daily, 18 ft³/s (0.51 m³/s) Aug. 28, Dec. 11, 1949; minimum gage height, 3.45 ft (1.052 m) Sept. 25, 1948.

REMARKS.--Records excellent. Flow regulated by East Brimfield, Westville, West Thompson, Hodges Village, Buffumville Reservoirs, (see p. 45), by Lake Chaugungagungamaug, estimated usable capacity, 207,000,000 ft³ (5,860,000 m³) and by smaller reservoirs upstream. Records of water quality for the current year are published in Part 2 of this report. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	719	1,690	1,100	3,990	4,000	2,150	2,680	1,320	1,100	469	168	513
2	719	1,590	948	3,580	3,500	2,170	2,530	1,350	1,200	444	160	450
3	273	1,300	856	2,910	3,000	2,070	2,400	1,340	1,000	445	196	434
4	181	1,090	786	2,660	2,500	1,990	2,400	1,460	900	466	211	540
5	464	919	761	2,330	2,300	1,930	2,540	1,440	800	492	194	712
6	504	798	1,350	2,190	2,200	1,860	2,470	1,350	700	587	193	675
7	504	698	1,710	2,050	2,100	1,750	2,250	1,300	650	673	180	872
8	484	640	1,580	1,910	2,000	1,650	2,040	1,230	600	660	170	1,150
9	471	610	1,520	1,640	1,800	1,540	2,300	1,150	600	632	166	1,030
10	462	636	2,100	1,600	1,700	1,490	3,100	1,210	700	560	159	757
11	425	558	2,130	1,850	1,600	1,420	2,990	1,490	913	477	147	696
12	387	503	1,900	1,980	1,530	1,360	2,640	1,560	610	396	139	576
13	388	451	1,660	1,790	1,520	1,280	2,470	3,000	464	344	136	486
14	386	458	1,890	1,640	1,540	1,190	2,580	2,500	408	322	133	516
15	371	522	2,720	1,690	1,500	1,120	3,700	2,200	350	318	129	572
16	353	471	2,500	1,680	1,390	1,140	3,900	2,000	408	310	124	462
17	351	486	3,500	1,640	1,350	2,650	3,230	1,500	1,010	313	124	447
18	369	486	6,020	1,380	1,310	3,320	2,720	1,400	1,100	301	157	381
19	361	477	4,770	1,830	1,300	2,930	2,400	1,200	1,030	305	153	352
20	353	485	3,730	2,180	3,710	2,540	2,310	1,100	923	317	147	328
21	332	483	3,910	2,290	4,270	3,110	2,160	1,000	852	279	140	414
22	309	487	6,260	3,920	3,730	7,570	2,020	1,000	979	253	132	923
23	298	477	5,480	4,210	4,560	6,760	1,910	1,000	863	233	132	1,050
24	295	442	4,750	4,100	4,240	5,540	1,880	1,100	763	209	135	906
25	295	595	4,190	3,500	3,620	4,220	1,770	1,200	666	199	135	788
26	278	794	4,000	5,000	3,030	3,290	1,650	1,100	592	195	127	693
27	265	800	5,110	6,000	2,630	2,820	1,570	1,100	568	183	121	611
28	253	946	5,090	6,000	2,320	2,440	1,460	1,000	547	179	120	583
29	284	1,210	4,800	6,500	------	2,280	1,400	950	513	179	467	2,010
30	405	1,220	4,640	7,000	------	2,150	1,320	900	488	178	729	3,180
31	1,580	------	4,380	5,500	------	2,420	------	1,000	------	176	615	------
TOTAL	13,619	22,322	96,141	96,540	70,250	80,150	70,790	42,450	22,297	11,094	6,039	23,127
MEAN	439	744	3,101	3,114	2,509	2,585	2,360	1,369	743	358	195	771
MAX	1,580	1,690	6,260	7,000	4,560	7,570	3,900	3,000	1,200	673	729	3,180
MIN	181	442	761	1,380	1,300	1,120	1,320	900	350	176	120	328
(*)	+8.6	-6.1	+53.9	-30.2	-14.6	+0.3	-8.2	-3.9	-5.3	-3.0	+1.8	+38.1
MEAN‡	448	738	3,155	3,084	2,494	2,585	2,352	1,365	738	355	197	809
CFSM‡	0.627	1.03	4.41	4.31	3.49	3.62	3.29	1.91	1.03	0.497	0.276	1.13
IN‡	0.72	1.15	5.08	4.97	3.63	4.17	3.67	2.20	1.15	0.57	0.32	1.26

CAL YR 1973 TOTAL 602,335 MEAN 1,650 MAX 9,710 MIN 181 MEAN‡ 1,654 CFSM‡ 2.31 IN‡ 31.40
WTR YR 1974 TOTAL 554,419 MEAN 1,520 MAX 7,570 MIN 120 MEAN‡ 1,523 CFSM‡ 2.13 IN‡ 28.89

*Change in contents in East Brimfield, Westville, West Thompson, Hodges Village, and Buffumville Reservoirs, equivalent in cubic feet per second; reservoir records furnished by Corps of Engineers.

‡Adjusted for change in contents.

01127500 Yantic River at Yantic, Conn.

LOCATION.--Lat 41°33'31", long 72°07'19", New London County, on left bank at Yantic, 700 ft (213 m) downstream from stone-arch highway bridge, 1 mi (2 km) downstream from Susquetonscut Brook, and 4.8 mi (7.7 km) upstream from mouth.

DRAINAGE AREA.--90.0 mi² (233.1 km²).

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 94.46 ft (28.791 m) above mean sea level.

AVERAGE DISCHARGE.--44 years, 158 ft³/s (4.475 m³/s), 23.84 in/yr (606 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,470 ft³/s (98.3 m³/s) Mar. 21, gage height, 9.31 ft (2.838 m); minimum, 5.7 ft³/s (0.16 m³/s) Aug. 16, 28, gage height, 0.76 ft (0.232 m).

Period of record: Maximum discharge, 13,500 ft³/s (382 m³/s) Sept. 21, 1938, gage height, 14.66 ft (4.468 m), from floodmark, by computation of flow over two dams 2.4 mi (4.0 km) upstream and 3.0 mi (4.8 km) downstream from station, respectively; minimum, 2.2 ft³/s (0.062 m³/s) Aug. 30, 1963; minimum gage height, 0.41 ft (0.012 m³/s) Oct. 13, 1930; minimum daily discharge, 2.3 ft³/s (0.065 m³/s) Aug. 30, 1963.

PEAK DISCHARGE.--(BASE, 1,000 ft³/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-30	0800	5.49	1,120	01-22	0100	6.67	1,640
12-17	1700	7.20	1,900	02-20	0600	7.84	2,260
12-21	1900	8.75	2,930	02-22	2200	6.51	1,560
12-27	0500	5.62	1,170	03-21	2200	9.31	3,470

REMARKS.--Records excellent. Low flow regulated by mills upstream. Records of water quality for current year are published in Part 2 of this report. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	377	139	432	327	298	335	107	95	39	11	23
2	31	273	114	377	279	286	259	95	126	34	13	20
3	32	190	101	315	245	255	231	105	88	35	28	28
4	32	142	98	293	220	244	308	178	65	78	32	74
5	31	122	127	266	210	233	330	133	56	71	19	49
6	30	110	511	261	210	206	284	109	48	92	15	28
7	27	100	369	246	200	190	227	104	40	51	12	98
8	26	92	229	212	190	179	190	96	37	36	12	111
9	25	90	393	165	190	166	468	85	37	30	11	51
10	25	86	701	193	180	196	621	126	34	27	10	34
11	24	81	421	230	180	179	465	174	30	24	9.7	27
12	24	79	275	250	170	161	345	143	27	20	9.7	24
13	25	79	206	220	165	145	310	399	26	19	8.9	21
14	26	82	533	210	198	129	340	257	23	17	7.9	18
15	27	78	533	200	185	133	814	165	22	27	6.4	16
16	39	79	348	190	151	143	604	126	94	41	5.9	14
17	46	79	1,190	190	156	782	358	105	255	30	8.6	12
18	47	75	1,260	175	146	556	270	88	149	22	18	9.7
19	55	74	583	250	173	345	240	81	75	31	11	9.7
20	34	74	418	270	1,920	259	227	67	51	41	9.4	10
21	59	70	1,590	583	1,070	1,140	200	60	78	25	6.4	21
22	67	78	1,950	1,480	899	2,150	179	60	193	20	7.4	76
23	37	79	929	1,090	1,200	914	173	61	102	19	7.6	41
24	10	77	576	884	646	570	177	89	81	18	8.4	26
25	8.7	129	404	614	456	421	159	98	61	14	6.9	20
26	8.9	129	474	471	379	340	142	80	53	12	6.6	18
27	27	111	1,040	716	313	298	130	69	50	13	6.6	17
28	41	229	731	682	286	259	122	66	48	13	6.2	16
29	79	298	514	649	------	223	116	68	44	13	6.9	382
30	865	192	530	488	------	214	104	84	42	12	18	261
31	582	------	459	396	------	369	------	68	------	12	30	------
TOTAL	2,422.6	3,754	17,746	12,986	10,944	11,983	8,728	3,546	2,130	936	371.5	1,555.4
MEAN	78.1	125	572	419	391	387	291	114	71.0	30.2	12.0	51.8
MAX	865	377	1,950	1,480	1,920	2,150	814	399	255	92	32	382
MIN	8.7	70	98	165	146	129	104	60	22	12	5.9	9.7
CFSM	.87	1.39	6.36	4.66	4.34	4.30	3.23	1.27	.79	.34	.13	.58
IN.	1.00	1.55	7.34	5.37	4.52	4.95	3.61	1.47	.88	.39	.15	.64

CAL YR 1973 TOTAL 88,003.6 MEAN 241 MAX 4,190 MIN 8.7 CFSM 2.68 IN 36.37
WTR YR 1974 TOTAL 77,102.5 MEAN 211 MAX 2,150 MIN 5.9 CFSM 2.34 IN 31.87

Reservoirs in Thames River basin

01119259. **STAFFORDVILLE RESERVOIR.**--Lat 41°59'46", long 72°15'37", Tolland County, Conn., on Furnace Brook in Willimantic River basin, at Staffordville. Drainage area, 8.34 mi^2 (21.60 km^2). Usable capacity, 75,500,000 ft^3 (2,140,000 m^3), based on reservoir survey by Connecticut Board of Fisheries and Game. Records available, September 1960 to current year. Dam was rebuilt after 1886 flood for storage of water for power and industrial supply.

01121500. **MANSFIELD HOLLOW LAKE.**--Lat 41°45'22", long 72°10'57", Tolland County, Conn., on Natchaug River at Mansfield Hollow, 3.5 mi (5.6 km) northeast of Willimantic. Drainage area, 160 mi^2 (414 km^2). Usable capacity, 2,260,000,000 ft^3 (64,000,000 m^3), including 90,000,000 ft^3 (3,000,000 m^3) storage in recreation pool. Records available, March 1952 to current year. Completed in 1952 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineers.

01123350. **EAST BRIMFIELD LAKE.**--Lat 42°06'32", long 72°07'35", Worcester County, Mass., on Quinebaug River, 0.7 mi (1.1 km) southeast of Fiskdale, 1.2 mi (1.9 km) east of East Brimfield. Drainage area, 67.5 mi^2 (174.8 km^2). Usable capacity, 1,400,000,000 ft^3 (40,000,000 m^3), including 83,000,000 ft^3 (2,400,000 m^3) storage in recreation and conservation pool. Records available, July 1960 to current year. Completed in 1960 by Corps of Engineers for storage of water for recreation, conservation, and flood control. Records furnished by Corps of Engineers.

01123550. **WESTVILLE LAKE.**--Lat 42°04'55", long 72°03'28", Worcester County, Mass., on Quinebaug River, 1.3 mi (2.1 km) west of Southbridge. Drainage area, 99.1 mi^2 (256.7 km^2). Usable capacity, 484,000,000 ft^3 (13,700,000 m^3), including 4,400,000 ft^3 (120,000 m^3) storage in recreation pool. Records available, February 1962 to current year. Completed in 1962 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineers.

01124150. **WEST THOMPSON LAKE.**--Lat 41°56'40", long 71°54'00", Windham County, Conn., on Quinebaug River above mouth of French River, at West Thompson. Drainage area, 172 mi^2 (445 km^2). Usable capacity, 1,170,000,000 ft^3 33.1 hm^3), including 52,000,000 ft^3 (1,500,000 m^3) storage in recreation pool. Records available, July 1965 to current year. Completed in 1965 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineer.

01124300. **HODGES VILLAGE RESERVOIR.**--Lat 42°07'09", long 71°52'51", Worcester County, Mass., on French River at Hodges Village. Drainage area, 31.1 mi^2 (80.5 km^2). Usable capacity, 577,000,000 ft^3 (16,300,000 m^3). Records available, February 1960 to current year. Completed in 1960 by Corps of Engineers for storage of water for flood control. Records furnished by Corps of Engineers.

01124400. **BUFFUMVILLE LAKE.**--Lat 42°06'58", long 71°54'29", Worcester County, Mass., on Little River in French River basin, at Buffumville, 2.2 mi (3.5 km) west of Oxford. Drainage area, 26.5 mi^2 (68.6 km^2). Usable capacity, 555,000,000 ft^3 (15,700,000 m^3), including 61,000,000 ft^3 (1,700,000 m^3) storage in recreation pool. Records available, September 1958 to current year. Completed in 1958 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineers.

Month-end usable contents, in millions of cubic feet, water year October 1973 to September 1974

Date	Staffordville Reservoir	Mansfield Hollow Lake	East Brimfield Lake	Westville Lake
Sept. 30, 1973	74.9	28.1	107.7	5.2
Oct. 31	75.5	28.1	112.6	6.0
Nov. 30	75.5	19.0	109.3	5.4
Dec. 31	75.5	65.6	133.5	49.2
Jan. 31, 1974	75.5	64.0	131.2	9.9
Feb. 28	75.5	73.2	117.6	6.7
Mar. 31	75.5	147.4	117.6	6.8
Apr. 30	75.5	134.9	111.0	5.8
May 31	75.5	28.1	109.3	5.4
June 30	75.5	120.8	104.4	4.8
July 31	75.5	114.8	102.7	4.6
Aug. 31	75.5	141.1	104.4	4.7
Sept. 30	75.5	124.7	124.4	9.9

Date	West Thompson Lake	Hodges Village Reservoir	Buffumville Lake
Sept. 30, 1973	63.8	1.4	64.5
Oct. 31	74.3	3.1	69.7
Nov. 30	66.9	1.3	67.1
Dec. 31	77.4	11.2	123.1
Jan. 31, 1974	83.7	8.7	80.1
Feb. 28	78.4	4.1	71.4
Mar. 31	80.5	2.8	71.4
Apr. 30	71.1	1.9	68.0
May 31	64.8	1.6	66.2
June 30	58.6	1.2	64.5
July 31	56.5	.6	61.0
Aug. 31	58.6	.5	61.9
Sept. 30	106.3	9.1	79.1

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.

LOCATION.--Lat 41°59'19", long 72°36'21", Hartford County, on right bank just upstream from Enfield Dam, 1 mi (2 km) downstream from Thompsonville, 3 mi (5 km) downstream from Massachusetts-Connecticut State line, and at mile 68.2 (kilometre 109.7).

DRAINAGE AREA.--9,661 mi² (25,022 km²).

PERIOD OF RECORD.--July 1928 to current year.

GAGE.--Water-stage recorders on river and on canal of Connecticut Light and Power Co. Datum of gage is 38.48 ft (11.729 m) above mean sea level.

AVERAGE DISCHARGE.--46 years, 16,260 ft³/s (460.5 m³/s), 22.86 in/yr (581 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 99,400 ft³/s (2,810 m³/s) Dec. 23 (gage height, 7.00 ft or 2.134 m); minimum daily, 1,910 ft³/s (54.1 m³/s) Aug. 11.
Period of record: Maximum discharge, 282,000 ft³/s (7,990 m³/s) Mar. 20, 1936 (gage height, 16.6 ft or 5.06 m, from floodmarks); minimum daily, 968 ft³/s (27.4 m³/s) Oct. 20, 1963.

REMARKS.--Records good. Discharge includes water diverted around station by canal of Connecticut Light & Power Co. Flow regulated by powerplants, by diversion from Chicopee River basin (see table below), and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, Quabbin Reservoir , and other reservoirs (combined usable capacity, about 107 billion cubic feet or 3.03 billion cubic meters). Records of chemical analyses and water temperature for the current year for this station and for station 01183750 (Connecticut River at Agawam, Mass.), 4.5 mi (7.2 km) upstream, are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 741: 1932. WSP 891: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,250	10,900	15,400	47,900	32,600	18,500	16,900	38,200	23,400	5,420	5,300	7,460
2	5,380	13,000	14,500	39,400	30,400	17,600	17,300	47,400	24,400	8,270	6,210	5,360
3	6,320	14,900	12,400	34,000	22,500	16,900	18,300	49,200	20,900	10,600	6,210	7,090
4	7,710	13,900	10,800	26,100	20,600	15,600	22,500	47,700	19,500	11,500	2,960	13,900
5	7,750	11,600	12,000	21,000	19,300	17,700	42,100	43,100	17,100	9,130	5,000	15,200
6	9,360	11,600	15,400	19,600	16,600	29,100	69,200	37,100	15,600	19,600	7,180	14,500
7	10,700	10,200	17,800	19,200	17,100	48,600	74,300	36,500	13,800	19,000	7,270	14,800
8	11,500	7,910	17,500	17,500	16,000	44,900	62,100	30,500	13,000	17,700	6,410	8,550
9	9,440	6,700	17,200	15,900	16,000	46,600	55,900	26,500	10,100	13,900	5,960	6,200
10	7,760	7,300	21,400	14,600	15,100	42,400	49,000	28,000	7,050	12,000	2,440	7,770
11	8,040	4,890	21,700	15,000	14,400	30,700	41,900	31,400	10,000	12,200	1,910	7,070
12	7,090	5,090	20,600	19,300	14,200	24,800	42,200	35,200	10,900	13,000	3,170	7,980
13	7,030	6,320	17,600	13,300	15,700	21,200	36,500	46,300	9,700	11,300	3,340	8,170
14	4,840	6,380	17,400	11,200	16,100	17,900	34,400	59,200	6,650	4,750	3,820	7,140
15	5,780	5,850	18,900	12,000	15,900	17,500	41,300	55,300	6,960	6,540	3,840	5,870
16	6,740	6,550	21,100	13,900	14,400	15,700	62,000	46,700	6,400	9,260	2,990	4,770
17	5,910	11,500	20,300	14,500	13,100	27,500	66,800	37,300	8,830	9,240	2,470	6,240
18	5,710	17,300	18,500	13,600	11,400	41,700	60,800	33,600	12,400	7,070	2,160	6,060
19	5,910	14,500	13,700	12,300	12,600	32,200	51,800	30,000	13,300	7,750	3,500	6,360
20	7,440	11,900	13,200	11,700	14,000	26,500	45,200	26,000	13,400	6,730	5,420	6,100
21	3,000	8,360	28,100	11,000	14,000	26,200	41,300	22,500	13,600	6,210	3,940	5,440
22	3,110	8,430	84,300	15,700	15,800	32,900	39,200	20,700	13,000	6,950	4,000	8,350
23	5,930	5,940	94,300	18,700	24,100	28,100	37,000	17,600	10,800	7,290	4,820	12,000
24	6,860	9,260	79,000	20,200	34,500	24,300	42,300	15,500	7,900	6,970	5,240	12,100
25	8,310	10,200	65,400	21,200	32,200	24,200	50,200	29,700	8,270	6,880	2,950	11,800
26	6,310	10,000	52,900	21,400	26,000	24,000	53,900	35,100	8,530	6,430	3,160	10,400
27	4,510	12,000	57,300	21,600	22,400	22,900	51,400	34,800	6,480	5,330	3,210	4,320
28	4,800	12,700	76,500	34,100	19,600	21,200	43,500	35,400	7,660	3,050	3,550	7,490
29	6,530	15,000	88,100	44,700	-------	19,000	36,200	38,100	7,070	4,550	4,080	13,400
30	10,500	15,300	78,400	44,900	-------	17,000	31,900	30,900	7,340	6,130	5,590	16,700
31	14,500	-------	59,000	35,600	-------	16,300	-------	23,700	-------	6,370	8,640	-------
TOTAL	220,420	300,560	1,084.7*	681,900	536,400	804,300	1,338.2*	1,086.0*	354,660	283,920	138,370	274,590
MEAN	7,110	10,020	34,990	22,000	19,160	25,950	44,610	35,030	11,820	9,159	4,464	9,153
MAX	14,500	15,300	94,300	47,900	34,500	48,600	74,300	59,200	24,400	19,600	8,640	16,700
MIN	3,110	4,890	10,800	11,000	11,400	15,600	16,900	15,500	6,400	3,050	1,910	5,360
(†)	476	409	163	25.9	8	97.2	33.2	346	460	426	432	495
MEAN‡	6,192	10,690	37,950	20,940	16,860	26,370	49,240	36,280	11,840	8,707	3,853	9,120
CFSM‡	.64	1.11	3.93	2.17	1.75	2.73	5.10	3.75	1.23	.90	.40	.94
IN.‡	.74	1.23	4.53	2.50	1.82	3.15	5.69	4.33	1.37	1.04	.46	1.05

CAL YR 1973 TOTAL 8,417,510 MEAN 23,060 MAX 97,400 MIN 2,080 MEAN‡ 23,670 CFSM‡ 2.45 IN‡ 33.27
WTR YR 1974 TOTAL 7,104,200 MEAN 19,460 MAX 94,300 MIN 1,910 MEAN‡ 19,080 CFSM‡ 2.06 IN‡ 27.91

* Expressed in thousands.
† Diversion, in cubic feet per second, from Chicopee River basin to Wachusett Reservoir.
‡ Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to Borden Brook and Cobble Mountain Reservoirs and for diversion from Chicopee River basin.

01184490 Broad Brook at Broad Brook, Conn.

LOCATION.--Lat 41°54'50", long 72°33'00", Hartford County, on left bank just upstream from bridge on State Highway 191 (Mill Street) at Broad Brook, 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--15.6 mi² (40.4 km²).

PERIOD OF RECORD.--August 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 53.24 ft (16.228 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 21.6 ft³/s (0.612 m³/s), 18.80 in/yr (478 mm/yr).

EXTREMES.--Current year: Maximum discharge, 668 ft³/s (18.9 m³/s) Dec. 21, gage height, 4.77 ft (1.454 m); minimum, 6.4 ft³/s (0.18 m³/s) Nov. 15; minimum gage height, 0.90 ft (0.274 m) Aug. 16.

Period of record: Maximum discharge, 802 ft³/s (22.7 m³/s) Feb. 3, 1970, gage height, 5.31 ft (1.618 m); minimum, 1.35 ft³/s (0.038 m³/s) Jan. 1, 1965, gage height, 0.43 ft (0.131 m); minimum daily, 1.70 ft³/s (0.048 m³/s) July 17, 1965.

PEAK DISCHARGE.--(BASE, 150 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-21	1830	4.77	668
12-27	0900	2.29	158
01-27	1700	2.56	212

REMARKS.--Records good. Flow regulated by reservoir and mill upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	26	16	38	39	32	40	28	23	16	14	15
2	13	23	15	36	36	35	31	29	26	16	23	14
3	16	18	15	32	34	31	30	30	22	16	14	21
4	16	16	15	31	32	30	41	36	21	17	14	83
5	17	16	20	29	25	30	43	30	20	17	15	28
6	15	14	46	28	28	28	46	28	20	45	14	18
7	14	14	24	27	28	28	36	28	19	23	14	34
8	15	14	20	25	27	27	34	28	18	18	14	25
9	13	14	32	21	26	26	44	26	18	17	20	19
10	13	13	51	25	25	26	30	33	17	16	13	17
11	13	13	26	25	24	25	29	41	17	16	13	16
12	13	13	23	25	23	25	27	33	17	15	13	15
13	13	13	21	23	23	23	27	53	17	15	13	15
14	12	13	27	25	26	23	26	27	17	15	13	16
15	12	13	26	23	24	23	35	25	17	17	12	15
16	12	15	27	23	21	26	30	23	17	17	13	14
17	12	16	40	23	21	86	27	22	21	16	13	14
18	12	14	44	18	21	50	27	21	19	15	21	15
19	13	14	25	27	21	36	30	21	17	15	14	14
20	14	13	25	28	63	32	30	20	17	18	13	15
21	13	13	336	29	42	60	29	22	17	16	13	24
22	13	14	166	75	39	70	29	22	17	15	13	50
23	13	14	64	54	65	50	28	22	17	14	13	22
24	12	14	46	56	41	50	28	25	17	14	13	20
25	12	22	35	41	33	45	28	25	17	15	13	17
26	13	20	41	36	31	40	28	24	17	16	13	16
27	13	17	125	122	29	40	28	23	17	16	13	15
28	13	26	74	95	28	40	28	22	17	15	15	15
29	15	24	55	78	------	40	27	22	16	15	20	90
30	72	18	46	54	------	45	30	23	16	15	21	37
31	33	------	39	45	------	40	------	22	------	14	20	------
TOTAL	492	487	1,566	1,217	875	1,162	946	836	548	525	460	729
MEAN	15.9	16.2	50.5	39.3	31.3	37.5	31.5	26.9	18.3	16.9	14.8	24.3
MAX	72	26	336	122	65	86	46	53	26	45	23	90
MIN	12	13	15	18	21	23	26	20	16	14	12	14
CFSM	1.02	1.04	3.24	2.52	2.01	2.40	2.02	1.72	1.17	1.08	.95	1.56
IN.	1.17	1.16	3.73	2.90	2.09	2.77	2.26	1.99	1.31	1.25	1.10	1.74

CAL YR 1973 TOTAL 12,312.5 MEAN 33.7 MAX 362 MIN 9.4 CFSM 2.16 IN 29.36
WTR YR 1974 TOTAL 9,843.0 MEAN 27.0 MAX 336 MIN 12 CFSM 1.73 IN 23.46

01186000 West Branch Farmington River at Riverton, Conn.

LOCATION.--41°57'46", long 73°01'05", Litchfield County, on right bank at downstream side of bridge on State Highway 20 at Riverton, 0.3 mi (0.5 km) upstream from Still River, 2.0 mi (3.2 km) downstream from Goodwin Dam of West Branch Reservoir, and at mile 55.0 (88.5 km).

DRAINAGE AREA.--131 mi² (339 km²).

PERIOD OF RECORD.--August 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 485.60 ft (14.801 m) above mean sea level. Prior to Mar. 29, 1957, nonrecording gage at same site and datum.

AVERAGE DISCHARGE (adjusted for storage).--19 years, 238 ft³/s (6.740 m³/s), 24.67 in/yr (627 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,710 ft³/s (48.4 m³/s) Dec. 21, gage height, 6.72 ft (2.048 m); minimum, 42 ft³/s (1.19 m³/s), Oct. 15-17, gage height, 2.99 ft (0.911 m).

Period of record: Maximum discharge observed, 10,600 ft³/s (300 m³/s) Oct. 16, 1955, gage height, 12.47 ft (3.801 m); minimum discharge, 0.9 ft³/s (0.026 m³/s) July 21, 1960; minimum gage height, 2.43 ft (0.741 m) Sept. 16, 1957.

Flood of Aug. 19, 1955, reached a stage of 21.1 ft (6.431 m), from floodmarks, discharge, 57,200 ft³/s (162 m³/s), by slope-area measurement 1.5 mi (2.4 km) upstream.

REMARKS.--Records excellent. Flow regulated by Otis and West Branch Reservoirs and Colebrook River Lake (see p. 73). See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	472	164	87	368	884	522	248	213	189	384	345	377
2	411	161	83	377	984	444	285	160	182	382	361	351
3	342	159	83	346	251	334	376	198	198	280	384	395
4	283	156	83	397	342	248	679	203	211	82	343	483
5	277	154	122	400	300	259	745	189	213	104	398	355
6	276	154	215	387	250	256	784	224	211	141	384	92
7	274	197	186	379	221	256	772	271	194	91	389	93
8	271	300	189	382	234	248	624	325	180	224	389	94
9	271	300	238	322	248	253	526	340	177	384	386	91
10	264	301	242	203	245	251	488	313	245	373	387	89
11	253	302	208	208	304	248	342	251	304	404	383	114
12	254	303	185	206	351	248	317	271	285	400	392	172
13	254	304	217	201	268	237	319	472	283	396	403	177
14	252	283	281	198	173	251	313	522	442	396	409	177
15	177	239	247	198	168	216	440	644	442	298	413	177
16	42	239	224	196	175	237	674	746	447	116	414	404
17	53	239	231	191	158	304	767	644	345	102	407	543
18	73	239	228	189	145	262	761	370	110	66	343	521
19	71	239	235	198	166	277	542	370	100	73	374	467
20	70	239	265	196	184	274	411	367	85	70	384	397
21	70	184	801	201	175	355	404	344	108	66	366	280
22	70	67	180	234	251	476	340	325	124	75	386	277
23	70	67	98	224	240	530	277	271	116	89	410	160
24	105	68	197	226	191	530	245	262	203	93	388	95
25	166	73	279	208	472	556	232	256	376	116	389	94
26	166	75	313	224	714	587	206	254	367	108	374	96
27	166	73	408	304	674	411	182	259	351	102	388	96
28	167	87	416	316	587	226	182	226	307	104	395	98
29	169	101	366	328	------	232	173	201	310	218	404	232
30	232	90	367	539	------	262	168	180	345	345	415	163
31	183	------	370	740	------	265	------	173	------	348	400	------
TOTAL	6,204	5,557	7,665	9,141	9,356	10,055	12,915	9,874	7,580	6,421	12,105	7,160
MEAN	200	185	247	295	334	324	431	319	253	207	390	239
MAX	472	304	801	740	984	587	745	746	447	404	415	543
MIN	42	67	83	189	145	216	168	160	85	66	345	89
(†)	-145.6	-25	+562	+91	-5	+120	+58	+8	-118	-149.2	-365.1	-54
MEAN‡	54.4	160	809	386	329	444	489	327	235	57.8	24.9	185
CFSM‡	0.42	1.22	6.18	2.95	2.51	3.39	3.73	2.50	1.79	0.44	0.19	1.41
IN‡	0.48	1.36	7.12	3.40	2.61	3.91	4.16	2.88	2.00	0.51	0.22	1.57

CAL YR 1973 TOTAL 119,266 MEAN 327 MAX 1,190 MIN 42 MEAN‡ 340 CFSM‡ 2.60 IN‡ 35.20
WTR YR 1974 TOTAL 104,038 MEAN 285 MAX 984 MIN 42 MEAN‡ 284 CFSM‡ 2.17 IN‡ 30.22

†Change in contents in Otis and West Branch Reservoirs and Colebrook River Lake, equivalent in cubic feet per second; records furnished by the Massachusetts Department of Natural Resources, Division of Forests and Parks, Hartford Metropolitan District Commission, and Corps of Engineers.

‡Adjusted for change in contents.

01186400 Sandy Brook at Robertsville, Conn.

LOCATION.--Lat 41°56'42", long 73°02'44", Litchfield County, on right bank at downstream side of bridge on State Highway 8 at Robertsville, 0.7 mi (1.1 km) upstream from mouth, 1.7 mi (2.7 km) downstream from Wrights Brook, and 1.8 mi (2.9 km) northwest of Riverton.

DRAINAGE AREA.--34.9 mi² (90.4 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961-67. October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 561.76 ft (171.224 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 80.0 ft³/s (2.266 m³/s), 31.13 in/yr (791 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,040 ft³/s (57.8 m³/s) Dec. 21, gage height, 6.76 ft (2.060 m); minimum, 2.1 ft³/s (0.059 m³/s) Aug. 16, gage height, 0.61 ft (0.186 m).

Period of record: Maximum discharge, 2,040 ft³/s (57.8 m³/s) Dec. 21, 1973, gage height, 6.76 ft (2.060 m); minimum, 1.6 ft³/s (0.045 m³/s) July 28, 29, 1971; minimum gage height observed, 0.53 ft (0.162 m) Sept. 4, 1964.

Flood of Aug. 19, 1955, reached a discharge of 10,100 ft³/s (286 m³/s), by contracted-opening measurement 1 mi (2 km) upstream, drainage area, 34.1 mi² (88.3 km²).

PEAK DISCHARGE.--(BASE, 700 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-21	1330	6.76	2,040

REMARKS.--Records excellent except those for period of no gage-height record Apr. 16 to May 7, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	112	61	130	135	76	117	130	80	29	6.7	23
2	9.2	91	49	107	102	81	142	100	89	26	5.5	20
3	9.3	79	44	82	86	66	141	85	64	37	5.5	48
4	9.1	61	43	76	83	80	142	70	47	65	6.7	166
5	9.3	51	73	62	62	120	207	65	36	80	6.7	97
6	9.1	39	184	49	60	107	246	80	29	264	6.0	55
7	8.2	32	116	51	60	88	157	60	23	110	5.2	62
8	8.9	28	79	50	66	85	117	51	19	61	5.2	56
9	9.7	33	204	71	58	70	116	45	18	39	4.7	33
10	9.2	34	341	104	61	66	106	43	15	29	4.2	22
11	8.1	25	191	123	48	56	89	104	13	21	3.3	16
12	10	22	119	100	45	54	143	121	11	16	2.9	12
13	10	21	89	90	48	43	148	449	13	13	2.5	10
14	9.6	20	320	80	53	45	183	222	10	11	2.9	17
15	8.3	20	251	70	46	39	215	130	8.4	15	2.7	15
16	8.0	21	144	65	47	89	180	94	13	12	2.4	12
17	7.9	23	127	61	38	377	150	74	45	10	2.9	13
18	8.0	24	100	78	35	195	130	66	35	8.8	4.9	32
19	9.2	22	76	126	37	147	130	53	25	10	4.7	23
20	10	28	76	95	107	122	110	48	19	12	3.1	15
21	11	25	1,090	87	90	247	100	41	30	9.2	3.3	39
22	11	26	745	248	189	337	90	37	48	7.0	2.9	53
23	34	25	428	227	480	222	80	43	35	6.0	6.7	34
24	30	28	188	161	221	191	75	57	30	5.5	19	23
25	26	52	129	107	122	141	70	82	25	8.1	13	16
26	23	52	190	82	83	113	65	75	39	7.0	9.2	14
27	22	47	534	260	70	91	60	60	37	8.1	6.7	12
28	14	92	554	380	62	75	55	51	33	11	14	14
29	14	119	350	409	------	63	50	48	28	9.7	15	210
30	161	79	225	254	------	63	60	50	25	9.2	35	176
31	137	------	156	170	------	99	------	42	------	7.7	37	------
TOTAL	663.7	1,324	7,280	4,055	2,593	3,663	3,774	2,704	942.4	957.3	250.5	1,338
MEAN	21.4	44.1	235	131	92.6	118	126	87.2	31.4	30.9	8.08	44.6
MAX	161	119	1,090	409	480	377	246	449	89	264	37	210
MIN	7.9	20	43	49	35	39	50	37	8.4	5.5	2.4	10
CFSM	.61	1.27	6.73	3.75	2.65	3.38	3.61	2.50	.90	.89	.23	1.28
IN.	.71	1.42	7.76	4.32	2.76	3.90	4.02	2.88	1.00	1.02	.27	1.43

CAL YR 1973 TOTAL 35,948.0 MEAN 98.5 MAX 1,090 MIN 5.3 CFSM 2.82 IN 38.31
WTR YR 1974 TOTAL 29,529.9 MEAN 80.9 MAX 1,090 MIN 2.4 CFSM 2.32 IN 31.47

01186500 Still River at Robertsville, Conn.

LOCATION.--Lat 41°58'04", long 73°02'04", Litchfield County, on left bank 1,500 ft (457 m) downstream from Sandy Brook, 1 mi (2 km) southeast of Robertsville, 1 mi (2 km) northwest of Riverton, and 1 mi (2 km) upstream from mouth.

DRAINAGE AREA.--84.7 mi² (219.4 km²).

PERIOD OF RECORD.--July 1948 to September 1967, July 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 710.24 ft (155.521 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage).--24 years, 167 ft³/s (4.729 m³/s), 26.77 in/yr (680 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,690 ft³/s (189 m³/s) Dec. 21, gage height, 8.99 ft (2.740 m); minimum, 5.0 ft³/s (0.14 m³/s) Aug. 16, gage height, 1.29 ft (0.393 m).

Period of record: Maximum discharge, 44,000 ft³/s (1,250 m³/s) Aug. 19, 1955, gage height, 16.48 ft (5.023 m), from floodmark, from rating curve extended above 5,600 ft³/s (159 m³/s) on basis of slope-area measurement of peak flow; minimum, 0.20 ft³/s (0.006 m³/s) Sept. 14, 1957; minimum daily, 0.30 ft³/s (0.008 m³/s) Sept. 14, 1957; minimum gage height, 0.29 ft (0.088 m) Aug. 8, 1955.

REMARKS.--Records good. Flow regulated by power plant, Mad River and Sucker Brook Detention Reservoirs, and Highland Lake (see p. 75). See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	248	131	244	391	234	336	313	141	41	15	60
2	73	196	92	272	303	189	370	231	151	55	14	50
3	56	147	107	248	272	168	374	204	139	85	13	100
4	61	195	102	228	281	207	405	199	114	139	14	300
5	56	112	125	172	269	272	443	168	102	139	13	150
6	22	88	363	176	258	248	538	164	82	458	12	90
7	19	78	245	181	243	218	377	181	80	196	11	117
8	33	75	181	228	181	199	329	169	56	118	9.5	102
9	32	67	458	257	158	168	354	143	49	83	19	72
10	40	59	851	313	199	155	326	257	60	88	8.5	47
11	36	49	366	326	158	162	313	288	65	62	7.7	43
12	52	65	251	194	153	155	356	257	62	41	7.1	40
13	21	76	196	198	147	135	439	848	60	42	6.5	40
14	17	42	590	180	162	127	402	417	62	35	6.2	18
15	17	78	470	170	141	129	534	284	35	75	5.6	22
16	27	56	287	168	118	229	421	257	40	68	5.3	46
17	18	57	272	153	104	757	336	248	133	56	5.9	38
18	18	51	236	237	99	417	287	188	109	49	13	65
19	20	88	202	281	129	322	303	164	89	41	11	39
20	29	78	199	248	281	278	248	179	78	48	9.0	49
21	21	48	3,190	228	243	505	215	168	87	38	9.0	56
22	18	57	1,770	417	426	767	199	116	107	46	7.7	76
23	51	52	906	363	437	466	191	131	78	45	24	76
24	45	57	666	339	391	486	188	155	91	21	30	51
25	55	112	501	269	281	356	179	151	43	26	28	53
26	32	155	410	215	243	303	164	135	116	24	14	42
27	38	119	950	604	220	272	123	114	117	23	18	38
28	40	186	1,010	843	207	245	121	127	85	24	30	24
29	55	257	851	893	-------	228	147	127	60	22	38	534
30	435	172	454	585	-------	164	133	131	52	22	78	413
31	339	-------	339	458	-------	275	-------	118	-------	19	78	-------
TOTAL	1,823	3,019	16,346	9,682	6,927	8,012	9,200	6,582	2,607	2,221	537.0	2,859
MEAN	58.8	101	527	312	247	258	307	212	86.9	71.6	17.3	95.3
MAX	435	257	3,190	893	437	767	538	848	151	458	78	534
MIN	17	42	92	153	99	127	121	114	35	19	5.3	18
(†)	-6.6	+1.0	+38.2	+7.3	-8.2	+1.9	-2.8	+7.9	-4.7	+2.5	-0.7	-5.5
MEAN‡	52.2	102	565	319	239	260	304	220	82.2	74.1	16.6	89.8
CFSM‡	0.62	1.20	6.67	3.77	2.82	3.07	3.59	2.60	0.97	0.87	0.20	1.06
IN‡	0.71	1.34	7.69	4.35	2.94	3.54	4.00	3.00	1.08	1.00	0.23	1.18

CAL YR 1973 TOTAL 81,679.0 MEAN 224 MAX 3,190 MIN 17 MEAN‡ 225 CFSM‡ 2.66 IN‡ 36.10
WTR YR 1974 TOTAL 70,615.0 MEAN 193 MAX 3,190 MIN 5.3 MEAN‡ 196 CFSM‡ 2.31 IN‡ 31.42

†Change in contents in Mad River and Sucker Brook Detention Reservoirs, and Highland Lake, equivalent in cubic feet per second; contents furnished by Corps of Engineers and Union Pin Company.

‡Adjusted for change in contents.

01187300 Hubbard River near West Hartland, Conn.

LOCATION.--Lat 42°02'14", long 72°56'22", Hartford County, on left bank at Massachusetts-Connecticut State line, 800 ft (244 m) upstream from bridge on State Highway 20, 0.5 mi (0.8 km) upstream from confluence with Valley Brook, and 2.6 mi (4.2 km) northeast of West Hartland.

DRAINAGE AREA.--19.9 mi² (51.5 km²).

PERIOD OF RECORD.--January 1938 to September 1955, September 1956 to current year. Monthly discharge only for periods January 1938 to September 1955, October 1956 to September 1960, published in WSP 1721. Daily figures for the periods January 1938 to September 1955, September 1956 to September 1960, available upon request.

GAGE.--Water-stage recorder and stepped sharp-crested weir. Datum of gage is 594.62 ft (181.240 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 38.1 ft³/s (1.079 m³/s), 26.00 in/yr (660 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,860 ft³/s (81.0 m³/s) Dec. 21, gage height, 9.18 ft (2.798 m); minimum, 2.1 ft³/s (0.059 m³/s) Oct. 11, 12, gage height, 0.25 ft (0.076 m).

Period of record: Maximum discharge, 10,500 ft³/s (297 m³/s) Aug. 19, 1955, gage height, 16.5 ft (5.03 m), from rating curve extended above 300 ft³/s (8.50 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 0.2 ft³/s (0.006 m³/s) Sept. 10, 1953, Aug. 16-21, 1957.

PEAK DISCHARGE.--(BASE, 500 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-21	1300	9.18	2,860

REMARKS.--Records good.

COOPERATION.--Gage-height record furnished by Water Bureau, Metropolitan District Commission, Hartford, Connecticut.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	41	26	62	92	49	89	79	39	9.5	4.3	8.7
2	2.6	28	21	55	67	52	99	52	37	7.4	4.0	6.5
3	2.7	24	18	47	64	42	110	42	24	11	4.3	20
4	2.8	20	17	40	50	54	112	51	18	13	4.3	70
5	2.7	17	36	39	52	82	120	35	15	31	4.1	30
6	2.7	16	94	35	43	76	123	39	13	78	3.8	16
7	2.7	14	53	31	41	68	82	30	10	29	3.5	28
8	2.5	13	34	27	35	62	67	30	8.9	15	3.4	25
9	2.3	12	179	37	29	54	72	26	8.4	11	3.3	16
10	2.3	11	173	43	26	49	61	76	7.2	7.8	3.1	10
11	2.2	10	66	39	26	39	61	88	6.2	6.2	2.8	8.0
12	2.1	9.7	53	35	24	35	99	86	5.3	5.3	2.7	6.3
13	2.3	9.5	39	33	25	28	126	300	6.7	5.8	2.6	5.8
14	2.3	9.5	128	31	29	27	103	106	5.5	5.0	2.7	6.7
15	2.3	9.1	94	29	24	25	137	72	4.8	7.0	2.6	4.8
16	2.6	10	58	27	22	72	92	57	5.0	6.0	2.2	4.0
17	2.2	9.9	65	26	22	243	72	51	25	5.0	2.5	3.4
18	2.3	8.9	53	24	20	107	61	39	18	4.7	3.4	3.4
19	2.3	8.6	58	30	25	76	61	29	10	5.0	2.8	3.7
20	2.4	8.2	39	37	62	69	57	24	7.4	5.5	2.5	4.3
21	2.7	7.8	1,320	35	54	165	48	20	14	4.5	2.3	9.3
22	2.7	9.1	323	144	144	172	42	19	25	4.0	2.2	16
23	2.7	9.1	153	99	240	96	39	21	15	3.7	10	9.1
24	2.6	9.5	100	88	91	96	37	28	11	3.5	14	6.3
25	2.6	26	68	64	65	79	31	45	9.3	4.5	5.1	5.1
26	2.5	25	100	56	50	61	28	31	15	5.1	3.1	5.3
27	2.5	22	227	104	41	54	25	25	14	5.5	2.3	5.0
28	2.6	55	223	203	39	44	24	23	13	6.0	3.3	10
29	4.0	68	128	233	------	35	22	22	11	5.6	3.5	170
30	147	39	98	134	------	35	23	22	9.7	5.3	13	65
31	58	------	78	103	------	76	------	18	------	5.0	15	------
TOTAL	279.1	550.9	4,090	2,080	1,505	2,222	2,123	1,577	411.4	320.1	130.7	501.7
MEAN	9.00	18.7	132	67.1	53.8	71.7	70.8	50.9	13.7	10.3	4.67	19.6
MAX	147	68	1,320	233	240	243	137	300	39	78	15	170
MIN	2.1	7.8	17	24	20	25	22	18	4.8	3.5	2.2	3.4
CFSM	.45	.94	6.63	3.37	2.70	3.60	3.56	2.56	.69	.52	.22	.97
IN.	.52	1.05	7.65	3.89	2.81	4.15	3.97	2.95	.77	.60	.24	1.09

CAL YR 1973 TOTAL 18,428.8 MEAN 50.5 MAX 1,320 MIN 1.6 CFSM 2.54 IN 34.45
WTR YR 1974 TOTAL 15,887.9 MEAN 43.5 MAX 1,320 MIN 2.1 CFSM 2.19 IN 29.70

01187980 Farmington River at Collinsville, Conn.

LOCATION.--Lat 41°47'57", long 72°55'33", Litchfield County, on left bank at abandoned hydroelectric plant 0.8 mi (1.3 km) south of Collinsville, and at mile 39.8 (64.0 km).

DRAINAGE AREA.--360 mi² (932 km²).

PERIOD OF RECORD.--November 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 245.22 ft (74.743 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage and diversion).--11 years, 678 ft³/s (19.20 m³/s), 25.56 in/yr (649 mm/yr).

EXTREMES.--Current year: Maximum discharge, 13,100 ft³/s (371 m³/s) Dec. 21, gage height, 14.23 ft (4.337 m); minimum daily 115 ft³/s (3.26 m³/s) Oct. 17.

Period of record: Maximum discharge, 13,100 ft³/s (371 m³/s) Dec. 21, 1973, gage height, 14.23 ft (4.337 m); minimum, 4.7 ft³/s (0.13 m³/s) Aug. 18, 1966, gage height, 2.06 ft (0.628 m); minimum daily, 5.6 ft³/s (0.16 m³/s) July 11, 1965.

Flood of Aug. 19, 1955, reached a stage of 35.6 ft (10.85 m), from floodmark, discharge, 140,000 ft³/s (3,960 m³/s) by slope-area measurement 0.5 mi (0.8 km) downstream.

REMARKS.--Records good except those for period of no gage-height record Jan. 3-28, and for the period August to September, which are fair. Flow regulated by Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River Detention Reservoir, Sucker Brook Detention Reservoir, Highland Lake, Barkhamsted, East Branch and Nepaug Reservoirs (see p. 73), and by diversion for municipal supply from Barkhamsted and Nepaug Reservoirs.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	604	561	313	1,250	1,760	1,380	968	830	413	590	521	504
2	650	489	266	1,150	1,770	1,290	992	665	366	632	496	468
3	673	418	232	1,060	1,110	1,130	1,060	656	406	577	512	529
4	648	365	250	1,000	939	1,030	1,430	725	402	336	500	1,080
5	657	318	252	918	934	1,120	1,730	581	370	271	488	909
6	651	325	774	876	892	1,120	2,070	559	346	761	484	637
7	626	300	611	850	752	1,070	1,720	670	319	432	480	319
8	583	434	502	734	665	1,040	1,460	680	285	336	480	329
9	612	436	755	765	635	1,010	1,490	700	268	529	484	254
10	608	440	1,430	721	579	986	1,390	847	291	529	472	246
11	610	430	854	768	608	974	1,170	921	394	555	456	464
12	591	429	641	779	677	962	1,190	803	391	533	448	771
13	600	439	556	750	642	880	1,300	2,030	303	529	452	756
14	568	430	1,100	700	514	825	1,360	1,640	613	521	452	740
15	508	365	1,120	700	459	641	1,770	1,410	604	521	448	710
16	139	369	762	735	407	488	1,770	1,400	609	238	444	613
17	115	371	742	568	411	1,630	1,660	1,300	735	212	464	680
18	122	366	714	606	380	1,020	1,510	869	326	171	464	705
19	130	366	573	681	393	847	1,410	777	254	167	440	637
20	134	386	593	755	759	766	1,120	730	217	195	429	651
21	143	373	6,130	574	735	1,300	1,020	685	222	130	421	756
22	135	212	4,140	1,050	1,000	2,050	915	609	352	132	432	782
23	138	194	1,910	1,190	2,000	1,500	792	551	271	176	488	504
24	158	185	1,350	1,100	1,270	1,300	730	581	271	167	488	248
25	244	240	1,170	978	1,180	1,210	670	573	525	202	468	222
26	260	295	1,100	838	1,490	1,190	637	538	577	190	452	219
27	249	292	2,010	1,220	1,490	1,030	525	492	632	181	448	209
28	250	344	2,120	2,070	1,380	710	496	464	564	188	468	217
29	268	484	1,890	2,350	------	646	484	425	496	243	484	1,470
30	1,020	398	1,660	1,950	------	627	460	421	546	538	559	968
31	773	------	1,390	1,910	------	866	------	406	------	525	559	------
TOTAL	13,467	11,044	37,950	31,596	25,831	32,636	35,299	24,538	12,373	11,307	14,681	17,597
MEAN	434	368	1,224	1,019	923	1,053	1,177	742	412	365	474	587
MAX	1,020	561	6,130	2,350	2,000	2,050	2,070	2,030	735	761	559	1,470
MIN	115	185	232	568	380	488	460	406	217	130	421	209
(†)	-186	+61	+982	+182	+61	+195	+138	+101	-70	-195	-274	-27
MEAN‡	248	429	2,206	1,201	984	1,248	1,315	893	342	170	200	560
CFSM‡	0.69	1.19	6.13	3.34	2.73	3.47	3.65	2.48	0.95	0.47	0.56	1.56
IN‡	0.80	1.33	7.07	3.85	2.84	4.00	4.07	2.86	1.06	0.54	0.65	1.74

CAL YR 1973 TOTAL 324,682 MEAN 890 MAX 6,130 MIN 115 MEAN‡ 986 CFSM‡ 2.74 IN‡ 36.95
WTR YR 1974 TOTAL 268,319 MEAN 735 MAX 6,130 MIN 115 MEAN‡ 816 CFSM‡ 2.27 IN‡ 30.81

†Change in contents in Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River Detention Reservoir, Sucker Brook Detention Reservoir, Highland Lake, Barkhamsted, East Branch and Nepaug Reservoirs, and diversion from Barkhamsted and Nepaug Reservoirs, equivalent in cubic feet per second; furnished by the Metropolitan District Commission, Corps of Engineers, Union Pin Company, and Massachusetts Department of Natural Resources, Division of Forests and Parks.

‡Adjusted for diversion and change in contents.

01188000 Burlington Brook near Burlington, Conn.

LOCATION.--Lat 41°47'10", long 72°57'55", Hartford County, on left bank 1.2 mi (1.9 km) north of Burlington, 3 mi (5 km) upstream from mouth, and 3 mi (5 km) southwest of Collinsville.

DRAINAGE AREA.--4.13 mi^2 (10.70 km^2).

PERIOD OF RECORD.--September 1931 to current year.

GAGE.--Water-stage recorder and compound sharp-crested weir. Datum of gage is 714.00 ft (217.627 m) above mean sea level.

AVERAGE DISCHARGE.--43 years, 8.08 ft^3/s (0.229 m^3/s), 26.57 in/yr (675 mm/yr).

EXTREMES.--Current year: Maximum discharge, 395 ft^3/s (11.2 m^3/s) Dec. 21, gage height, 6.75 ft (2.057 m); minimum, 0.38 ft^3/s (0.011 m^3/s) July 13, gage height, 1.39 ft (0.424 m).

Period of record: Maximum discharge, 1,690 ft^3/s (47.9 m^3/s) Aug. 19, 1955, gage height, 9.22 ft (2.810 m), from rating curve extended above 320 ft^3/s (9.06 m^3/s) on basis of computation of peak flow through orifice and over weir abutments at 676 ft^3/s (19.1 m^3/s) and 1,690 ft^3/s (47.9 m^3/s); minimum, 0.12 ft^3/s (0.003 m^3/s) June 22, 1965; minimum unregulated daily, 0.44 ft^3/s (0.012 m^3/s) Aug. 31, Sept. 10, 1965.

PEAK DISCHARGE.--(BASE, 140 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
10-30	0700	6.13	283
12-09	2000	5.39	183
12-21	0930	6.75	395
09-29	0600	5.70	221

REMARKS.--Records excellent. Occasional regulation at low flow. Records of water quality for the current year are published in Part 2 of this report. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	14	5.9	16	13	9.9	22	12	8.6	2.7	2.2	2.6
2	2.4	9.5	5.2	14	12	8.8	17	7.7	6.1	2.0	2.0	2.4
3	2.6	7.3	5.0	12	12	8.5	13	9.7	4.8	4.1	2.8	7.0
4	2.6	6.0	5.0	12	11	9.9	16	11	4.4	3.8	4.3	28
5	3.0	5.4	17	10	10	9.9	18	7.6	3.7	5.5	4.8	10
6	2.7	4.9	31	11	10	8.2	17	7.0	3.4	22	2.6	5.7
7	2.5	4.8	11	10	9.5	7.9	12	7.7	3.0	4.6	2.2	10
8	2.4	4.6	8.4	9.2	9.5	7.3	11	6.7	3.0	3.0	2.0	7.0
9	2.4	4.5	60	8.2	9.5	7.4	28	6.1	3.0	2.6	1.8	3.9
10	2.4	4.2	33	10	9.0	9.2	17	18	2.8	2.4	1.6	3.1
11	2.4	4.1	15	12	9.0	7.7	16	12	2.6	2.1	1.6	2.6
12	2.4	4.3	11	10	9.0	7.1	15	13	2.6	2.6	1.4	2.3
13	2.4	4.3	9.5	8.5	8.8	6.1	14	27	2.6	1.4	1.4	2.1
14	2.4	4.2	38	8.5	9.0	5.9	14	12	2.4	.88	1.6	2.6
15	2.3	4.3	17	8.5	7.6	5.9	35	9.0	2.2	3.5	1.4	2.0
16	2.3	5.2	12	8.7	7.7	22	15	7.6	4.6	3.5	1.3	1.9
17	2.2	4.9	20	8.0	7.1	37	12	6.7	12	2.4	4.9	1.8
18	2.4	4.4	14	6.8	6.7	14	10	6.6	4.3	1.9	8.4	1.7
19	2.4	4.1	13	17	13	12	12	5.8	3.0	2.3	3.3	1.7
20	2.4	3.9	12	11	24	10	10	5.3	2.6	2.2	1.8	1.7
21	2.4	3.8	247	22	13	50	9.2	5.0	2.8	1.9	1.4	6.6
22	2.4	4.5	43	31	27	31	8.5	4.9	3.0	1.8	1.3	8.8
23	2.4	4.3	20	21	20	16	8.5	7.1	3.0	1.6	1.8	3.4
24	2.4	4.9	17	19	12	14	7.9	7.4	3.0	1.7	1.8	2.6
25	2.4	11	16	14	10	12	7.9	6.7	3.0	9.2	1.4	2.5
26	2.4	8.8	28	13	9.0	10	7.3	5.3	3.0	3.6	1.3	2.4
27	2.4	7.6	46	63	8.4	9.9	6.7	5.2	3.2	3.4	1.3	2.1
28	2.4	16	28	33	8.2	9.0	6.7	4.9	3.1	3.0	1.8	3.4
29	6.8	11	20	34	------	8.0	6.4	5.8	3.0	3.0	2.8	92
30	91	7.0	18	19	------	9.2	6.6	5.6	2.3	3.8	7.0	21
31	21	------	15	16	------	24	------	4.5	------	3.0	5.0	------
TOTAL	187.0	187.8	841.0	496.4	315.0	407.8	399.7	260.9	111.1	111.48	80.3	244.9
MEAN	6.03	6.26	27.1	16.0	11.3	13.2	13.3	8.42	3.70	3.60	2.59	8.16
MAX	91	16	247	63	27	50	35	27	12	22	8.4	92
MIN	2.2	3.8	5.0	6.8	6.7	5.9	6.4	4.5	2.2	.88	1.3	1.7
CFSM	1.46	1.52	6.56	3.87	2.74	3.20	3.22	2.04	.90	.87	.63	1.98
IN.	1.68	1.69	7.58	4.47	2.84	3.67	3.60	2.35	1.00	1.00	.72	2.21

CAL YR 1973 TOTAL 4,771.30 MEAN 13.1 MAX 247 MIN 2.2 CFSM 3.17 IN 42.98
WTR YR 1974 TOTAL 3,643.38 MEAN 9.98 MAX 247 MIN .88 CFSM 2.42 IN 32.82

01189000 Pequabuck River at Forestville, Conn.

LOCATION.--Lat 41°40'23", long 72°54'04", Hartford County, on left bank 500 ft (152 m) upstream from bridge on Central Street, 0.2 mi (0.3 km) downstream from Copper Mine Brook, and 6.5 mi (10.5 km) upstream from mouth.

DRAINAGE AREA.--45.4 mi² (117.6 km²).

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 197.72 ft (60.265 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage and diversion).--33 years, 84.9 ft³/s (2.404 m³/s), 25.39 in/yr (645 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,980 ft³/s (56.1 m³/s) Dec. 21, gage height, 5.12 ft (1.561 m); minimum, 15 ft³/s (0.42 m³/s) Aug. 25; minimum gage height, 0.93 ft (0.283 m) Oct. 28, 29, Aug. 25.

Period of record: Maximum discharge, 11,700 ft³/s (331 m³/s) Aug. 19, 1955, gage height, 13.22 ft (4.029 m), from high-water mark in gage house, from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of slope-area measurement at gage heights 7.3 and 13.22 ft (2.22 and 4.029 m); minimum, 6.5 ft³/s (0.18 m³/s) Sept. 21, 22, 1941, gage height, 0.64 ft (0.195 m).

Flood of September 1938 reached a stage of about 7.3 ft (2.22 m), from floodmarks, discharge 3,800 ft³/s (108 m³/s) on basis of slope-area measurement of peak flow and computation of peak flow over dam.

PEAK DISCHARGE.--(BASE, 800 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-21	2000	5.12	1,980
09-28	1700	3.10	877

REMARKS.--Records good except those for period of no gage-height record July 5 to Aug. 1, which are fair. Flow regulated by Whigville Reservoir (see p. 73) and mills upstream. Diversion for municipal supply of city of New Britain from Whigville Reservoir. See REVISIONS summary paragraph in WSP 1501.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	78	42	125	76	72	146	78	72	35	26	27
2	22	70	38	120	65	72	137	63	50	26	42	32
3	23	48	36	101	63	67	115	88	54	41	41	206
4	23	40	35	98	90	68	181	85	45	27	32	52
5	23	38	87	94	92	68	174	63	37	50	26	31
6	23	36	230	86	92	65	184	59	35	80	23	67
7	22	35	113	82	88	59	128	65	32	60	23	45
8	21	32	69	76	86	56	113	57	31	50	22	29
9	21	30	227	74	80	60	225	54	29	40	21	27
10	21	29	413	74	56	70	195	137	29	35	19	25
11	22	27	140	74	31	59	137	94	24	30	20	23
12	21	24	103	84	60	56	123	86	29	29	20	23
13	22	27	84	84	59	51	128	210	30	28	20	44
14	21	27	225	84	65	50	146	110	27	28	24	26
15	21	26	167	80	57	51	221	82	27	30	22	21
16	22	29	110	67	48	140	199	69	51	28	21	21
17	20	27	146	63	52	241	142	60	101	27	67	21
18	21	25	134	59	54	125	120	56	41	25	22	21
19	21	26	86	90	115	98	115	48	31	25	21	21
20	22	25	82	63	167	88	113	44	29	26	20	21
21	20	25	1,390	140	94	225	103	42	37	25	20	86
22	20	27	725	224	113	431	96	42	34	32	26	32
23	23	27	286	161	158	268	90	60	32	27	23	25
24	21	38	199	140	92	195	86	57	31	25	17	22
25	21	61	161	110	82	158	80	52	30	23	17	21
26	20	45	195	101	76	134	72	42	24	25	18	21
27	19	48	360	259	65	117	69	42	30	26	18	20
28	18	106	229	305	65	105	63	42	24	26	72	296
29	77	72	171	272	------	96	60	54	24	26	50	195
30	358	50	152	184	------	90	60	48	28	26	51	74
31	123	------	131	146	------	123	------	40	------	26	24	------
TOTAL	1,154	1,203	6,566	3,725	2,241	3,608	3,821	2,129	1,118	1,007	868	1,575
MEAN	37.2	40.1	212	120	80.0	116	127	68.7	37.3	32.5	28.0	52.5
MAX	358	106	1,390	305	167	431	225	210	101	80	72	296
MIN	18	25	35	59	31	50	60	40	27	23	17	20
(†)	+4.1	+5.6	+9.2	+9.8	+9.8	+9.8	+9.7	+8.8	+4.8	+2.8	+2.0	+4.0
MEAN‡	41.3	45.7	221	130	89.8	126	137	77.5	42.1	35.3	30.0	56.5
CFSM‡	0.91	1.01	4.87	2.86	1.98	2.78	3.02	1.71	0.93	0.78	0.66	1.24
IN‡	1.05	1.13	5.62	3.30	2.06	3.20	3.37	1.97	1.04	0.90	0.76	1.38

CAL YR 1973 TOTAL 37,044 MEAN 101 MAX 1,390 MIN 18 MEAN‡ 108 CFSM‡ 2.38 IN‡ 32.36
WTR YR 1974 TOTAL 29,015 MEAN 79.5 MAX 1,390 MIN 17 MEAN‡ 86.2 CFSM‡ 1.90 IN‡ 25.78

†Change in contents in Whigville Reservoir, diversion for municipal supply of city of New Britain from Whigville Reservoir and at Whites Bridge pumping plant, equivalent in cubic feet per second; records furnished by city of New Britain.

‡Adjusted for diversion and change in contents.

01189390 East Branch Salmon Brook at Granby, Conn.

LOCATION.--Lat 41°57'15", long 72°46'48", Hartford County, on right bank at downstream side of bridge on State Highway 20, 0.5 mi (0.8 km) east of Granby, 1.0 mi (1.6 km) upstream from West Branch Salmon Brook, and 1.8 mi (2.9 km) downstream from Manitook Lake.

DRAINAGE AREA.--33.3 mi² (86.2 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.74 ft (48.994 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 61.4 ft³/s (1.739 m³/s), 25.04 in/yr (636 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,540 ft³/s (43.6 m³/s) Dec. 21, gage height, 8.40 ft (2.560 m); minimum, 8.0 ft³/s (0.23 m³/s) Aug. 16, 17, 22, 23, gage height, 0.93 ft (0.283 m).

Period of record: Maximum discharge, 1,540 ft³/s (43.6 m³/s) Dec. 21, 1973, gage height, 8.40 ft (2.560 m); minimum, 4.0 ft³/s (0.11 m³/s) Sept. 4, 5, 1968; minimum gage height, 0.68 ft (0.207 m) July 16, 1965.

PEAK DISCHARGE.--(BASE 500 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-21	1900	8.40	1,540
03-21	2300	4.34	526
09-29	0930	5.27	752

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	68	31	118	136	90	147	104	55	29	12	15
2	15	55	27	110	112	80	133	84	57	26	12	13
3	16	42	26	98	102	80	120	77	49	26	12	18
4	18	35	25	93	99	90	120	89	42	26	12	64
5	18	30	30	83	101	90	130	76	38	23	12	36
6	17	26	75	80	127	73	157	69	35	45	11	25
7	16	33	52	76	86	71	119	77	32	33	11	26
8	15	32	42	68	81	67	104	74	30	26	10	26
9	15	25	113	60	77	64	136	66	29	22	10	20
10	14	22	182	67	73	64	125	99	27	19	10	17
11	14	18	100	75	69	58	129	110	26	16	9.7	15
12	14	17	76	72	65	57	160	91	24	16	9.4	14
13	15	17	63	75	64	53	156	207	24	15	9.1	13
14	14	17	123	70	62	51	144	126	23	14	8.8	13
15	14	16	111	65	60	50	176	101	21	15	8.6	12
16	14	17	80	65	58	70	137	83	22	15	8.3	11
17	14	17	84	65	56	274	115	75	58	13	8.6	11
18	14	16	88	95	55	141	104	67	44	13	10	11
19	14	16	65	71	100	111	108	60	32	13	9.4	11
20	15	16	60	71	180	94	106	56	29	14	8.8	13
21	15	15	804	76	100	190	93	50	30	12	8.6	27
22	15	17	482	152	200	283	86	48	45	16	8.3	34
23	14	18	229	131	150	164	86	50	36	14	11	29
24	14	18	153	130	110	137	82	57	34	12	25	22
25	14	31	115	113	92	117	76	59	31	11	13	18
26	14	34	117	105	83	102	74	55	32	13	11	16
27	13	28	209	242	77	95	69	51	32	13	11	14
28	13	44	213	258	75	87	66	48	32	13	11	14
29	16	47	168	269	------	81	63	48	29	13	12	324
30	157	37	142	187	------	83	62	49	29	13	16	143
31	81	------	125	153	------	139	------	46	------	13	19	------
TOTAL	667	824	4,210	3,393	2,648	3,206	3,303	2,352	1,027	562	348.6	1,025
MEAN	21.5	27.5	136	109	94.6	103	113	75.9	34.2	18.1	11.2	34.2
MAX	157	68	804	269	200	283	176	207	58	45	25	324
MIN	13	15	25	60	55	50	62	46	21	11	8.3	11
CFSM	.65	.83	4.08	3.27	2.84	3.09	3.39	2.28	1.03	.54	.34	1.03
IN.	.75	.92	4.70	3.79	2.96	3.58	3.78	2.63	1.15	.63	.39	1.15

CAL YR 1973 TOTAL 31,569.0 MEAN 86.5 MAX 804 MIN 13 CFSM 2.60 IN 35.27
WTR YR 1974 TOTAL 23,645.6 MEAN 64.8 MAX 804 MIN 8.3 CFSM 1.95 IN 26.41

01189995 Farmington River at Tariffville, Conn.

LOCATION.--Lat 41°54'30", long 72°45'40", Hartford County, on right bank at Tariffville, behind house at 20 Tunxis Road, 0.3 mi (0.5 km) downstream from bridge on State Highway 189 and 5.5 mi (8.8 km) upstream from gage at Rainbow.

DRAINAGE AREA.--571 mi² (1,479 km²).

PERIOD OF RECORD.--January 1913 to August 1928 furnished by Farmington River Power Company. August 1928 to September 1939, October 1971 to current year.

GAGE.--Water-stage recorder August 1928 to September 1939 and since October 1971. January 1913 to August 1928, staff gage on forebay of dam of Hartford Electric Light Co. Datum of gage is 130.21 ft (39.688 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 8,930 ft³/s (253 m³/s) Dec. 22, gage height, 7.95 ft (2.423 m); minimum, 215 ft³/s (6.09 m³/s) July 22-24, minimum gage height, 1.04 ft (0.317 m) Oct. 18, July 22-24.

Period of record: Maximum discharge, 29,900 ft³/s (847 m³/s) Sept. 22, 1938, gage height, 14.0 ft (4.27 m), from floodmarks, by computation of flow over dam 0.6 mi (1.0 km) downstream; minimum, probably less than 30 ft³/s (0.85 m³/s) Mar. 1, 1938, river level below intake; minimum daily discharge, about 175 ft³/s (4.96 m³/s) Sept. 22, 1930.

REMARKS.--Records good except those for Nov. 5 to Dec. 14, which are fair. Flow regulated by Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River and Sucker Brook Detention Reservoirs, Highland Lake, Barkhamsted, East Branch, Nepaug and Whigville Reservoirs (see p. 73), and by diversion for municipal supply from Barkhamsted, Nepaug and Whigville Reservoirs, and Whites Bridge pumping station. Records of water quality for the current year are published in Part 2 of this report. See REVISIONS summary paragraph in WSP 1901, p. 793.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	757	1,510	620	2,260	2,930	2,030	2,110	1,210	805	805	698	771
2	744	1,100	550	2,110	2,780	2,030	2,030	1,400	903	840	666	672
3	804	878	500	1,930	2,450	1,870	1,950	1,190	737	833	666	672
4	812	753	460	1,830	1,780	1,690	2,120	1,360	776	826	685	1,390
5	825	650	500	1,700	1,700	1,710	2,640	1,240	731	568	711	1,450
6	797	600	1,200	1,570	1,610	1,730	3,200	1,060	672	875	654	1,160
7	791	550	1,300	1,440	1,550	1,650	3,000	1,130	620	996	620	826
8	742	550	950	1,410	1,360	1,540	2,570	1,180	568	640	620	711
9	743	620	1,250	1,130	1,260	1,530	2,630	1,160	524	607	614	537
10	746	600	2,500	1,030	1,150	1,500	2,840	1,310	499	724	607	426
11	746	590	1,700	1,150	1,130	1,480	2,470	1,770	549	718	575	390
12	733	580	1,300	1,470	1,160	1,440	2,270	1,520	620	724	556	750
13	744	600	1,150	1,310	1,200	1,390	2,240	2,540	607	705	562	896
14	728	600	1,500	1,170	1,140	1,270	2,440	2,980	588	692	562	932
15	697	580	2,220	1,170	1,010	1,240	2,790	2,360	812	692	556	875
16	574	560	1,660	1,110	910	982	3,110	2,100	805	659	562	833
17	330	550	1,420	1,100	882	2,560	2,840	2,000	1,100	390	556	750
18	300	540	1,510	1,080	854	2,530	2,540	1,730	1,040	337	711	812
19	300	520	1,220	1,130	840	1,830	2,390	1,320	820	286	666	819
20	300	540	1,110	1,320	1,530	1,530	2,210	1,180	488	303	575	750
21	300	540	4,400	1,160	1,710	1,750	1,880	1,120	450	292	543	925
22	304	530	8,460	2,030	1,570	3,970	1,710	1,060	556	226	530	1,190
23	304	400	7,380	2,340	2,880	3,470	1,550	989	568	215	581	1,010
24	304	370	4,230	2,180	2,680	2,590	1,410	1,060	511	221	698	601
25	311	500	2,630	1,950	1,470	2,210	1,300	1,050	549	303	627	396
26	371	600	2,260	1,700	2,000	2,030	1,220	982	764	408	588	366
27	401	600	3,200	2,190	2,140	1,960	1,130	903	840	337	581	337
28	402	700	3,760	3,820	2,070	1,570	1,030	861	861	325	594	331
29	414	450	3,510	4,130	------	1,320	942	826	785	308	698	2,430
30	1,810	800	3,030	3,760	------	1,270	960	840	757	450	778	2,710
31	2,220	------	2,560	3,260	------	1,710	------	785	------	718	903	------
TOTAL	20,364	19,361	70,040	56,990	46,246	57,382	63,562	42,236	20,705	17,023	19,548	26,728
MEAN	657	645	2,259	1,838	1,652	1,851	2,119	1,362	690	549	631	891
MAX	2,220	1,510	8,460	4,130	2,930	3,970	3,200	2,980	1,100	996	903	2,710
MIN	300	370	460	1,030	840	982	960	785	450	215	530	331
(†)	-182	+66.4	+991	+192	+71.2	+205	+147	+110	-65.2	-193	-272	-22.9
MEAN‡	475	711	3,250	2,030	1,723	2,056	2,266	1,472	625	356	359	868
CFSM‡	0.832	1.25	5.69	3.56	3.02	3.60	3.97	2.58	1.09	0.623	0.629	1.52
IN‡	0.96	1.40	6.56	4.10	3.14	4.15	4.43	2.97	1.22	0.72	0.73	1.70

CAL YR 1973 TOTAL 571,774 MEAN 1,567 MAX 8,460 MIN 300 MEAN‡ 1,670 CFSM‡ 2.92 IN‡ 39.55
WTR YR 1974 TOTAL 460,190 MEAN 1,261 MAX 8,460 MIN 215 MEAN‡ 1,349 CFSM‡ 2.36 IN‡ 32.08

†Change in contents in Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River and Sucker Brook Detention Reservoirs, Highland Lake, Barkhamsted, East Branch, Nepaug and Whigville Reservoirs, and diversions from Barkhamsted, Nepaug, and Whigville Reservoirs and Whites Bridge pumping station, equivalent in cubic feet per second; furnished by the Metropolitan District Commission, Corps of Engineers, Union Pin Company, Massachusetts Department of Natural Resources, Division of Forests and Parks, and the city of New Britain.

‡Adjusted for diversion and change in contents.

01190000 Farmington River at Rainbow, Conn.

LOCATION.--Lat 41°54'41", long 72°41'16", Hartford County, on left bank at Rainbow, 300 ft (91 m) from Stevens Paper Mill, 0.4 mi (0.6 km) downstream from Farmington River Power Co. dam, 1.3 mi (2.1 km) upstream from Poquonock, 6.4 mi (10.3 km) downstream from Salmon Brook, and at mile 8.2 (13.2 km).

DRAINAGE AREA.--583 mi² (1,510 km²).

PERIOD OF RECORD.--August 1928 to current year. Prior to 1940, published as "at Tariffville."

GAGE.--Water-stage recorder. Datum of gage is 35.36 ft (10.778 m) above mean sea level. Prior to July 1, 1939, graphic water-stage recorder at site 5.5 mi (8.8 km) upstream at datum 94.85 ft (28.910 m) higher.

AVERAGE DISCHARGE (adjusted to present site; adjusted for storage and diversion).--46 years, 1,060 ft³/s (30.02 m³/s), 24.69 in/yr (627 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,390 ft³/s (266 m³/s) Dec. 22, gage height, 7.84 ft (2.390 m); minimum daily, 123 ft³/s (3.48 m³/s) Oct. 21.

Period of record: Maximum discharge, 69,200 ft³/s (1,960 m³/s) Aug. 19, 1955, gage height, 23.5 ft (7.16 m), from floodmarks, by computation of flow over dam 0.4 mi (0.6 km) upstream; minimum daily, 5.1 ft³/s (0.14 m³/s) Mar. 5, 1944, Oct. 28, Nov. 11, 1945; Feb. 22, 1947.

REMARKS.--Records excellent. Flow regulated by power plant, by Otis Reservoir, Colebrook River Lake, Mad River Detention Reservoir, Sucker Brook Detention Reservoir, Highland Lake, Barkhamsted, East Branch, Nepaug and Whigville Reservoirs (see p. 73), and by diversions for municipal supply from Barkhamsted, Nepaug and Whitville Reservoirs, and Whites Bridge pumping plant. Records of water quality at reservoir 0.4 mi (0.6 km) upstream are published in Part 2 of this report. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	656	1,660	612	2,130	2,590	1,710	1,810	898	707	805	477	700
2	830	1,310	365	1,970	2,470	1,860	1,980	1,340	613	973	726	650
3	597	533	614	1,750	2,250	1,610	1,740	1,180	793	961	793	800
4	775	242	622	2,020	1,880	1,530	1,810	1,100	765	716	661	1,400
5	807	265	564	1,670	1,170	1,450	2,240	1,250	815	730	637	1,190
6	724	530	676	1,300	1,370	1,460	2,520	1,040	652	783	655	1,270
7	797	529	1,550	1,360	1,430	1,520	2,690	1,050	580	569	621	656
8	725	530	881	1,470	1,410	1,430	2,550	1,130	535	700	751	712
9	724	548	1,260	1,150	1,040	1,210	2,510	936	201	650	457	467
10	729	545	2,060	995	925	1,300	2,480	1,220	641	660	596	559
11	830	581	2,260	1,040	945	1,380	2,210	1,660	682	650	478	367
12	497	566	1,640	1,190	1,080	1,050	2,060	1,480	737	550	600	619
13	682	578	1,100	931	1,140	1,210	2,050	2,130	594	450	595	1,020
14	699	589	1,320	899	1,040	1,020	2,080	2,550	424	400	582	780
15	736	560	1,970	1,020	889	1,080	2,460	2,180	558	1,300	522	657
16	675	536	1,470	1,000	857	1,180	2,760	2,030	1,020	1,100	536	845
17	403	539	1,430	1,030	679	2,120	2,590	1,990	1,150	593	686	713
18	291	525	1,450	825	754	1,930	2,430	1,540	1,170	240	637	586
19	337	508	661	758	768	1,850	2,260	1,320	612	521	767	732
20	195	518	1,180	1,270	1,230	1,350	2,070	1,060	513	140	563	1,040
21	123	1,090	3,580	1,200	1,560	1,580	1,950	910	500	149	644	666
22	124	530	8,540	1,550	1,460	2,850	1,590	1,100	446	384	600	1,340
23	274	585	7,510	1,880	2,280	3,030	1,590	1,000	361	354	650	1,010
24	382	321	4,070	1,890	2,250	2,400	1,320	1,010	577	385	700	367
25	435	275	2,850	1,870	1,870	2,080	1,160	1,010	513	490	350	554
26	376	707	2,220	1,420	1,350	2,050	1,210	765	518	375	500	327
27	269	588	2,180	1,610	1,880	2,010	900	929	1,040	329	650	422
28	352	428	3,400	3,050	1,870	1,700	797	951	783	325	600	609
29	677	804	3,190	3,600	------	1,370	1,280	987	752	469	700	1,850
30	1,280	811	2,810	3,280	------	1,170	972	721	808	338	900	2,450
31	2,050	------	2,440	2,850	------	1,450	------	844	------	982	800	------
TOTAL	19,051	18,431	66,475	49,978	40,437	50,940	58,089	39,311	20,060	18,011	19,434	25,358
MEAN	615	614	2,144	1,612	1,444	1,643	1,936	1,268	669	581	627	845
MAX	2,050	1,660	8,540	3,600	2,590	3,030	2,760	2,550	1,170	1,300	900	2,450
MIN	123	242	365	758	679	1,020	797	721	201	140	350	327
(†)	-182	+66.4	+991	+192	+71.2	+205	+147	+110	-65.2	-193	-272	-22.9
MEAN‡	433	680	3,135	1,804	1,515	1,848	2,083	1,378	604	388	355	822
CFSM‡	0.743	1.17	5.38	3.09	2.60	3.17	3.57	2.36	1.04	0.666	0.609	1.41
IN‡	0.86	1.30	6.20	3.56	2.71	3.66	3.98	2.72	1.16	0.77	0.70	1.57

CAL YR 1973 TOTAL 527,716 MEAN 1,446 MAX 8,540 MIN 123 MEAN‡ 1,549 CFSM‡ 2.66 IN‡ 35.94
WTR YR 1974 TOTAL 425,575 MEAN 1,166 MAX 8,540 MIN 123 MEAN‡ 1,254 CFSM‡ 2.15 IN‡ 29.19

†Change in contents in Otis and West Branch Reservoirs, and Mad River and Sucker Brook Detention Reservoirs, Colebrook River Lake, Highland Lake, Barkhamsted, East Branch, Nepaug and Whigville Reservoirs, and diversion from Barkhamsted, Nepaug, Whigville Reservoirs, and Whites Bridge pumping plant, equivalent in cubic feet per second; furnished by the Metropolitan District Commission, Corps of Engineers, Union Pin Company, Massachusetts Department of Natural Resources, Division of Forests and Parks, and the city of New Britain.

‡Adjusted for diversion and change in contents.

01190070 Connecticut River at Hartford, Conn.

LOCATION.--Lat 41°46'10", long 72°40'04", Hartford County, at Bulkeley Memorial Bridge at Hartford, Conn.

DRAINAGE AREA.--10,487 mi² (27,161 km²).

PERIOD OF RECORD.--January 1905 to current year.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft (3.048 m) below mean sea level. Gage-height record converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Records prior to 1973 available at the River Forecast Center, NOAA, Hartford, Conn. Datum of River Forecast Center gage is 0.55 ft (0.168 m) below mean sea level. At times of high fresh-water inflow, tide effect is eliminated. Stage data in feet at 15-minute intervals available upon request.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum	Elevation	5.05	4.17	20.81	12.35	9.37	12.14	17.35	14.57	6.79	5.77	5.17	4.93
high tide	Date	30	28	23	1	7	10	7	15	2	23	13	30
	Time	0530	1645	1800	2345	1545	0445	1415	0515	0315	1845	2345	0300
Minimum	Elevation	.07	.45	2.11	3.83	3.04	4.29	4.84	4.26	1.23	-.29	-.91	.73
low tide	Date	22	12	4	21	18	5	1	24	14	29	12	2
	Time	1945	1100	1730	0945	0915	0745	1845	1330	1730	0715	1600	1115

NOTE.--Time shown is eastern standard.

01190500 South Branch Park River at Hartford, Conn.

LOCATION.--Lat 41°44'02", long 72°42'51", Hartford County, on left bank 100 ft (30 m) downstream from bridge on Newfield Avenue in Hartford, 0.7 mi (1.1 km) downstream from confluence of Trout Brook and Piper Brook, and 3.3 mi (5.3 km) upstream from confluence with North Branch.

DRAINAGE AREA.--39.9 mi² (103.3 km²).

PERIOD OF RECORD.--October 1936 to current year.

GAGE.--Nonrecording gage. Datum of gage is 25.53 ft (7.782 m) above mean sea level. Prior to July 6, 1972, water-stage recorder 150 ft (46 m) upstream at datum 5.54 ft (1.689 m) higher.

AVERAGE DISCHARGE.--38 years, 71.6 ft³/s (2.028 m³/s), 24.37 in/yr (619 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,700 ft³/s (105 m³/s) Dec. 22, gage height, 10.6 ft (3.23 m); minimum daily, 5.0 ft³/s (0.14 m³/s) Aug. 14, 15.

Period of record: Maximum discharge, 5,000 ft³/s (142 m³/s) Aug. 19, 1955, from rating curve extended above 1,800 ft³/s (51.0 m³/s) on basis of records for North Branch Park River and Park River at Hartford; maximum gage height, 19.65 ft (5.989 m), from floodmarks, site and datum then in use; minimum daily discharge, 3.5 ft³/s (0.099 m³/s) July 16, 1965.

Flood of Mar. 12, 1936, reached a stage of 12.1 ft (3.69 m), site and datum then in use, determined by Hartford City Engineers from floodmarks.

REMARKS.--Records fair except those for the periods Jan. 1-20 and July 28 to Sept. 8, which are poor. Some regulation by dams upstream and by storage and diversion at Hartford water-supply reservoirs on headwater streams. Some regulation at high flow by Talcott, South, Burnt Hill, and Bugbee Detention Reservoirs on tributaries of Trout Brook. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	144	30	100	97	84	153	101	38	40	20	20
2	16	62	21	93	80	53	132	34	41	26	16	15
3	15	55	33	80	110	50	60	70	38	88	40	95
4	16	50	23	70	78	68	195	60	35	70	30	150
5	17	47	145	60	54	62	90	52	33	56	20	30
6	17	26	225	58	110	40	100	41	33	62	13	20
7	17	26	40	57	59	45	90	44	26	25	10	334
8	18	23	33	55	52	42	79	39	22	18	9.0	50
9	18	23	900	55	76	40	434	36	21	17	8.0	44
10	15	23	196	55	65	42	108	79	20	17	7.0	41
11	14	22	82	55	53	40	145	70	26	15	6.0	44
12	15	22	68	55	56	35	93	90	26	15	5.5	54
13	17	22	68	55	65	31	116	220	26	15	5.5	46
14	20	22	173	55	65	26	120	81	24	14	5.0	86
15	23	18	100	60	62	28	357	62	20	13	5.0	50
16	16	18	70	55	65	33	128	50	20	18	10	39
17	23	19	200	59	59	250	108	45	95	11	20	19
18	24	17	150	60	56	70	86	38	26	12	30	19
19	33	16	59	80	80	68	124	36	20	11	10	19
20	25	16	33	110	323	62	112	35	18	20	7.0	18
21	20	16	2,410	200	110	724	97	35	17	15	6.5	21
22	20	16	2,600	368	173	571	76	35	25	14	6.5	100
23	18	16	560	190	142	212	76	91	22	20	9.0	19
24	18	17	160	105	102	160	60	45	20	40	9.0	21
25	18	20	150	124	68	112	60	42	24	110	7.0	19
26	30	24	201	110	68	93	60	38	20	21	7.0	19
27	20	42	259	440	53	76	60	35	24	17	7.0	18
28	20	124	205	352	45	76	55	35	24	16	30	30
29	63	55	150	242	------	76	46	35	26	16	50	700
30	442	35	120	162	------	153	36	35	30	22	50	200
31	86	------	105	120	------	225	------	35	------	25	30	------
TOTAL	1,136	1,036	9,569	3,886	2,432	3,655	3,544	1,744	840	879	489.0	2,340
MEAN	36.6	34.5	309	125	86.9	118	118	56.3	28.0	28.4	15.8	78.0
MAX	442	144	2,600	440	323	724	434	220	95	110	50	700
MIN	14	16	21	55	45	26	36	34	17	11	5.0	15
CFSM	.92	.86	7.74	3.13	2.18	2.96	2.96	1.41	.70	.71	.40	1.95
IN.	1.06	.97	8.92	3.62	2.27	3.41	3.30	1.63	.78	.82	.46	2.18

CAL YR 1973 TOTAL 36,607.0 MEAN 100 MAX 2,600 MIN 13 CFSM 2.51 IN 34.13
WTR YR 1974 TOTAL 31,550.0 MEAN 86.4 MAX 2,600 MIN 5.0 CFSM 2.17 IN 29.42

01191000 North Branch Park River at Hartford, Conn.

LOCATION.--Lat 41°47'03", long 72°42'31", Hartford County, on right bank 60 ft (18 m) downstream from stone-arch bridge on Albany Avenue in Hartford, and 3 mi (5 km) upstream from confluence with South Branch.

DRAINAGE AREA.--25.1 mi² (65.0 km²).

PERIOD OF RECORD.--October 1936 to current year.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 34.20 ft (10.424 m) above mean sea level.

AVERAGE DISCHARGE.--38 years, 37.4 ft³/s (1.059 m³/s), 20.23 in/yr (514 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,790 ft³/s (50.7 m³/s) Dec. 21, gage height, 8.98 ft (2.737 m); minimum, 2.0 ft³/s (0.056 m³/s) Aug. 11, 12, gage height, 1.20 ft (0.366 m).

Period of record: Maximum discharge, 10,000 ft³/s (283 m³/s) Aug. 19, 1955, from rating curve extended above 1,600 ft³/s (45.3 m³/s) on basis of slope-area measurement of peak flow 2.6 mi (4.2 km) upstream; maximum gage height, 18.8 ft (5.73 m) Aug. 19, 1955, from floodmarks; minimum discharge, 0.04 ft³/s (0.001 m³/s) Sept. 24, 25, 1943, gage height, 0.75 ft (0.229 m); minimum daily, 0.4 ft³/s (0.011 m³/s) Sept. 24, 1943.

Flood of March 12, 1936, reached a stage of 11.2 ft (3.42 m), as determined from floodmarks by city engineers of Hartford, discharge about 2,800 ft³/s (79 m³/s).

REMARKS.--Records good except those for the period prior to Jan. 14 and for June, which are fair. Some regulation at small dams upstream and by storage and diversion at a Hartford water supply reservoir on headwater stream. High flow regulated by Bloomfield, Cold Spring, Wintonbury, and Blue Hills Reservoirs, on tributaries of North Branch Park River. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	25	11	45	48	38	72	40	12	14	7.3	8.5
2	6.8	20	9.0	40	39	36	67	22	15	9.6	5.9	8.5
3	7.9	17	10	36	60	30	61	24	13	16	15	34
4	8.4	15	11	34	46	43	65	39	12	12	9.9	80
5	6.7	12	35	32	34	43	60	23	11	68	12	17
6	6.0	9.5	40	31	27	31	95	19	10	51	7.3	11
7	5.8	10	20	29	26	25	68	24	9.0	14	6.4	55
8	5.8	10	14	27	22	23	39	20	8.0	14	6.1	19
9	5.8	9.5	140	25	22	21	269	19	7.5	11	5.6	11
10	5.2	7.6	70	26	27	23	121	50	7.5	9.2	5.2	10
11	5.0	7.0	30	27	34	19	66	39	7.5	7.3	4.1	8.9
12	5.2	6.8	25	28	24	19	65	50	7.5	6.1	3.5	8.2
13	5.6	6.6	25	33	23	17	56	164	7.5	5.6	4.1	8.9
14	5.8	6.8	50	30	27	16	54	53	7.0	5.2	4.7	12
15	5.4	6.0	40	25	22	16	144	33	6.2	7.3	4.7	6.4
16	5.4	6.2	30	26	19	55	65	28	6.4	7.6	4.3	5.6
17	6.3	6.3	48	26	19	240	64	20	24	5.9	24	5.4
18	6.6	5.8	35	19	19	66	33	17	12	5.4	21	6.1
19	7.8	5.7	20	40	52	40	43	14	8.0	7.0	6.7	5.9
20	6.6	5.7	20	48	205	30	34	13	7.0	10	6.1	6.1
21	6.0	5.5	785	88	59	369	29	13	7.0	5.9	4.9	33
22	6.0	5.9	474	288	107	347	26	13	10	5.4	5.2	59
23	5.7	6.1	100	188	134	92	27	13	8.5	5.2	6.4	12
24	5.6	6.8	70	145	53	69	23	14	8.0	5.2	7.0	8.5
25	5.8	9.3	50	85	43	51	22	16	8.0	19	5.4	7.3
26	7.3	12	60	71	37	39	20	14	8.0	8.5	4.5	7.0
27	5.7	13	80	315	28	34	19	38	8.5	6.7	4.9	7.3
28	5.7	27	75	231	25	30	18	26	8.5	5.9	18	15
29	15	17	70	181	------	25	19	16	8.2	5.9	30	371
30	95	13	60	92	------	30	20	13	7.6	7.9	30	99
31	35	------	50	64	------	129	------	12	------	8.9	19	------
TOTAL	317.8	314.1	2,562.0	2,372	1,281	2,046	1,764	899	280.4	370.7	299.2	947.6
MEAN	10.3	10.5	82.6	76.5	45.8	66.0	58.8	29.0	9.35	12.0	9.65	31.6
MAX	95	27	785	315	205	369	269	164	24	68	30	371
MIN	5.0	5.5	9.0	19	19	16	18	12	6.2	5.2	3.5	5.4
CFSM	.41	.42	3.29	3.05	1.82	2.63	2.34	1.16	.37	.48	.38	1.26
IN.	.47	.47	3.80	3.52	1.90	3.03	2.61	1.33	.42	.55	.44	1.40

CAL YR 1973 TOTAL 17,968.6 MEAN 49.2 MAX 917 MIN 4.4 CFSM 1.96 IN 26.63
WTR YR 1974 TOTAL 13,452.8 MEAN 36.9 MAX 785 MIN 3.5 CFSM 1.47 IN 19.94

01192600 South Branch Salmon Brook at Buckingham, Conn.

LOCATION.--Lat 41°43'05", long 72°32'25", Hartford County, on left bank just upstream from culvert on Keeney Street at Buckingham.

DRAINAGE AREA.--0.94 mi² (2.43 km²).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder and compound sharp-crested weir. Datum of gage is 203.41 ft (61.999 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 1.53 ft³/s (0.0433 m³/s), 22.11 in/yr (562 mm/yr).

EXTREMES.--Current year: Maximum discharge, 39 ft³/s (0.82 m³/s), gage height, 2.84 ft (0.866 m); minimum, 0.75 ft³/s (0.021 m³/s) July 31, Aug. 1, gage height, 0.96 ft (0.293 m).

Period of record: Maximum discharge, 115 ft³/s (3.26 m³/s) Sept. 19, 1972, gage height, 5.00 ft (1.524 m); minimum, 0.18 ft³/s (0.005 m³/s) Oct. 5, 1966, gage height, 0.78 ft (0.238 m).

PEAK DISCHARGE.--(BASE, 12 ft³/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-30	0230	1.90	14	08-17	2130	2.49	28
12-21	1300	2.84	39	08-28	2300	2.01	16
04-04	0530	2.01	16	08-30	1600	1.87	12
04-15	0030	1.83	13	09-03	2100	2.01	16
05-10	1030	1.88	14	09-13	2330	2.22	21
05-12	2100	1.86	13	09-21	2100	2.79	37
07-05	1730	2.18	20	09-29	0130	2.23	22
08-04	1800	1.99	15				

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.6	1.3	2.7	2.7	2.7	2.6	3.1	2.4	1.4	.82	.91
2	1.1	1.2	.99	2.4	2.7	2.4	2.5	2.7	1.9	1.3	.85	1.1
3	1.1	1.1	.99	2.4	2.7	2.3	2.3	3.1	1.8	1.9	1.1	3.1
4	1.1	1.1	1.0	2.3	2.7	2.3	4.3	2.8	1.8	1.4	2.2	2.0
5	1.1	1.1	2.2	2.1	2.5	2.2	3.1	3.3	1.7	2.2	1.1	1.1
6	1.1	1.0	3.5	2.0	2.5	2.0	2.9	3.6	1.7	1.3	.94	1.1
7	1.1	1.0	2.6	1.9	2.6	2.0	2.9	3.6	1.7	1.1	.94	2.4
8	1.1	.98	2.5	1.7	2.5	2.0	3.0	3.8	1.7	1.1	.91	1.1
9	1.1	.99	2.4	1.7	2.5	2.0	5.1	3.8	1.6	1.1	.88	1.0
10	1.1	.94	2.0	1.6	2.4	2.2	3.5	4.4	1.5	.98	.88	.98
11	1.1	.92	1.5	1.7	2.4	2.0	3.3	2.6	1.5	.98	.88	.94
12	1.1	.95	1.4	1.5	2.3	2.0	3.3	3.5	1.5	.98	.88	.94
13	1.1	.98	1.4	1.5	2.5	2.0	3.6	3.1	1.5	.94	.88	1.5
14	1.1	1.0	2.3	1.4	2.5	2.0	3.5	2.6	1.4	.94	.91	1.5
15	1.0	.98	1.5	1.4	2.4	1.9	5.9	2.5	1.4	1.1	.88	1.0
16	.94	1.0	1.5	1.4	2.3	3.5	3.8	2.3	1.9	.94	.85	.98
17	.94	.94	3.4	1.3	2.3	4.0	3.6	2.2	1.9	.91	2.5	.98
18	.94	.94	1.4	1.2	2.3	2.4	3.5	2.1	1.5	.91	1.1	.98
19	.94	.92	1.5	2.3	3.3	2.3	3.8	2.1	1.5	.94	.94	.94
20	.99	.91	2.9	1.5	4.0	2.2	3.6	2.0	1.5	.88	.91	.94
21	.98	.93	17	3.3	2.7	4.0	3.8	2.0	1.8	.88	.88	2.9
22	.95	1.0	5.9	3.4	3.6	4.4	3.8	2.0	1.5	.88	.91	1.4
23	.94	.95	4.8	2.9	3.4	3.4	3.6	2.4	1.7	.88	.94	1.1
24	.92	1.1	3.6	2.6	2.8	3.3	3.8	2.3	1.5	.88	.91	1.1
25	.91	1.1	3.1	2.5	2.7	3.0	3.6	2.2	1.7	1.1	.91	1.1
26	.92	1.0	4.1	2.5	2.6	2.8	3.6	2.0	1.4	.88	.91	1.0
27	.91	1.2	4.2	4.2	2.5	2.7	3.5	2.0	1.5	.88	.91	.98
28	.91	1.5	3.7	3.4	2.6	2.7	3.4	1.9	1.4	.85	1.7	1.5
29	1.8	1.1	3.1	3.3	------	2.5	3.2	2.2	1.4	.85	1.2	4.5
30	4.2	1.1	3.0	3.0	------	2.8	3.3	1.9	1.4	.82	1.7	1.5
31	1.5	------	2.7	2.9	------	3.1	------	1.9	------	.79	.98	------
TOTAL	36.07	31.53	93.58	70.2	75.0	81.1	105.7	82.0	48.7	32.99	33.30	42.57
MEAN	1.16	1.05	3.02	2.26	2.68	2.62	3.52	2.65	1.62	1.06	1.07	1.42
MAX	4.2	1.6	17	4.2	4.0	4.4	5.9	4.4	2.4	2.2	2.5	4.5
MIN	.91	.91	.99	1.2	2.3	1.9	2.3	1.9	1.4	.79	.82	.91
CFSM	1.23	1.12	3.21	2.40	2.85	2.79	3.74	2.82	1.72	1.13	1.14	1.51
IN.	1.43	1.25	3.70	2.78	2.97	3.21	4.18	3.25	1.93	1.31	1.32	1.69

CAL YR 1973 TOTAL 991.28 MEAN 2.72 MAX 30 MIN .91 CFSM 2.89 IN 39.23
WTR YR 1974 TOTAL 732.74 MEAN 2.01 MAX 17 MIN .79 CFSM 2.14 IN 29.00

01192890 Coginchaug River at Rockfall, Conn.

LOCATION.--Lat 41°32'10", long 72°41'16", Middlesex County, on left bank just downstream from bridge on State Highway 157, 0.5 mi (0.8 km) northeast of Rockfall, and 2.5 mi (4.0 km) southwest of Middletown.

DRAINAGE AREA.--34.7 mi² (89.9 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 61.16 ft (18.642 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 58.2 ft³/s (1.648 m³/s), 22.78 in/yr (579 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,320 ft³/s (37.4 m³/s) Dec. 22, gage height, 5.27 ft (1.606 m); minimum, 0.50 ft³/s (0.014 m³/s) Aug. 16, gage height, 0.54 ft (0.165 m).

Period of record: Maximum discharge, 1,500 ft³/s (42.5 m³/s) Feb. 3, 1973, gage height, 5.63 ft (1.716 m); minimum, 0.30 ft³/s (0.008 m³/s) Aug. 2, 1964; minimum daily, 0.90 ft³/s (0.025 m³/s) July 8, 15, Aug. 5, 8, 1962, July 17, 1965; minimum gage height, 0.49 ft (0.149 m) July 17, 1965.

PEAK DISCHARGE.--(BASE, 400 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-22	0430	5.27	1,320
03-22	1200	4.77	1,060

REMARKS.--Records excellent. Some regulation at low flow by Beseck Lake and industrial plants upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	61	31	149	135	95	139	40	35	12	3.6	13
2	7.3	50	23	136	118	83	117	36	36	11	3.1	11
3	7.8	35	19	123	100	78	102	39	34	11	10	30
4	8.4	26	18	109	97	71	115	51	29	10	5.8	65
5	8.0	19	31	104	90	67	124	44	24	9.6	8.2	33
6	7.1	16	142	96	80	60	117	42	20	10	5.4	23
7	6.7	14	135	86	70	55	102	39	17	9.1	4.3	37
8	7.2	12	116	64	69	50	88	38	15	8.2	3.6	35
9	7.4	11	145	62	69	50	155	34	14	7.4	3.6	33
10	7.6	10	190	73	75	64	191	54	13	6.6	3.1	24
11	7.9	9.5	166	57	61	64	158	70	12	6.2	2.6	16
12	6.6	9.1	133	66	65	50	131	70	11	5.4	2.4	11
13	3.4	9.5	103	65	58	49	115	112	11	4.7	2.4	8.7
14	5.1	9.6	104	60	66	43	117	105	10	3.9	2.4	8.2
15	5.3	9.8	110	57	67	42	232	88	10	3.9	2.1	6.6
16	5.4	10	98	54	61	61	179	69	10	5.0	1.4	5.4
17	2.6	9.8	109	57	54	181	139	51	17	5.0	1.6	5.4
18	5.6	9.4	113	60	52	189	114	40	19	5.0	3.6	5.0
19	3.8	9.2	123	70	60	156	102	33	18	5.0	3.9	4.7
20	3.9	8.9	88	76	185	124	95	30	15	5.0	3.6	4.7
21	4.5	8.7	672	115	194	343	83	27	20	4.3	3.3	9.1
22	4.7	9.3	1,180	298	225	973	72	25	20	4.3	3.1	26
23	6.2	9.6	649	390	280	599	66	25	17	3.9	2.8	32
24	4.7	12	360	348	218	331	62	28	18	3.6	3.1	30
25	4.7	19	249	264	173	224	59	31	17	5.8	3.1	23
26	4.4	21	213	209	144	175	54	31	15	4.7	2.6	15
27	4.0	22	256	246	119	141	49	31	14	4.7	2.4	12
28	5.1	35	238	232	104	119	44	28	14	4.7	2.8	11
29	11	44	205	216	------	98	42	28	13	5.0	4.3	89
30	50	39	184	187	------	93	40	29	13	4.3	15	86
31	60	------	162	160	------	139	------	29	------	3.9	16	------
TOTAL	284.1	568.4	6,370	4,289	3,089	4,867	3,201	1,398	531	193.2	135.2	712.8
MEAN	9.16	18.9	205	138	110	157	107	45.1	17.7	6.23	4.36	23.8
MAX	60	61	1,180	390	280	973	232	112	36	12	16	89
MIN	2.6	8.7	18	54	52	42	40	25	10	3.6	1.4	4.7
CFSM	.26	.54	5.91	3.98	3.17	4.52	3.08	1.30	.51	.18	.13	.69
IN.	.30	.61	6.83	4.60	3.31	5.23	3.43	1.50	.57	.21	.14	.76

CAL YR 1973 TOTAL 30,284.0 MEAN 83.0 MAX 1,380 MIN 2.6 CFSM 2.39 IN 32.47
WTR YR 1974 TOTAL 25,651.7 MEAN 70.3 MAX 1,180 MIN 1.4 CFSM 2.03 IN 27.50

01193000 Connecticut River near Middletown, Conn.

LOCATION.--Lat 41°33'40", long 72°36'43", Middlesex County, on right bank 0.5 mi (0.8 km) upstream from Bodkin Rock, 2 mi (3 km) downstream from Middletown, and 30 mi (48 km) upstream from mouth.

DRAINAGE AREA.--10,882 mi² (28,184 km²).

PERIOD OF RECORD.--October 1965 to current year. Jan. 1, 1947, to Sept. 30, 1948, twice daily readings on outside staff gage, and Sept. 8, 1948, to Oct. 14, 1965, infrequent discharge measurements at high stages and continuous graphic record of stage.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft (3.048 m) below mean sea level. Auxiliary digital water-stage recorder at same datum on right bank 3.8 mi (6.1 km) downstream, 120 ft (37 m) downstream from pier of United Aircraft Corporation (formerly Connecticut Advanced Nuclear Engineering Laboratory, CANEL).

REMARKS.--Volume records fair. Flow affected by ocean tides below a stage of 18.00 ft (5.486 m) and by storage in major reservoirs having a combined capacity of about 117 billion cubic feet (3.31 billion cubic metres). Some diversion from Chicopee River basin and regulation of flow by power plants. Volumes of flow in alternate directions are tabulated for each cycle of ebb and flood tide. Base data are simultaneous readings of gage heights obtained by two standard U.S. Geological Survey digital recorders located at the ends of a fairly uniform channel reach. Net volume cannot be accurately computed by taking the difference between successive values of upstream and downstream volumes, because channel storage is different at the beginning and end of each tidal change, and because net volume is a comparatively small difference between two large numbers, and the errors in the large numbers would be greatly magnified in the difference.

Where 2 successive downstream or upstream volumes are shown on adjacent days, the portion of the volume occurring in each day should be combined to obtain total downstream or upstream volume for that ebb or flood tide.

Records of water quality at auxiliary gage, station 01193050, for current year are published in Part 2 of this report.

Discharge in cfs at 15-minute intervals are available upon request.

NOTE.--Incomplete gage-height record many days during year. Where no volume is shown, gage-height record is incomplete; however, discharge or volume may be available for partial days.

01193000 Connecticut River near Middletown, Conn.--Continued

OCTOBER 1973 DISCHARGE AT STATION 1193000

DAY	VOLUME IN MILLIONS OF CUBIC FEET				
1	-253	245	-277	330	
2	30	-160	264	-251	304
3	81	-150	301	-199	225
4	125	-146	301	-181	193
5	197	-147	291	-160	118
6	271	-128	302	-139	66
7	336	-137	408	-117	37
8	392	-165	384	-127	15
9	459	-171	414	-166	
10	0	435	-229	409	-175
11	502	-206	445	-118	
12	-36	429	-225	421	-76
13	-69	396	-236	434	-50
14	-113	407	-233	342	-25
15	-173	311	-304	375	
16	0	-186	343	-264	398
17	28	-152	324	-275	320
18	92	-141	307	-243	229
19	152	-144	318	-219	169
20	209	-166	364	-146	118
21	207	-169	329	-229	27
22	209	-242	288	-213	0
23	305	-192	333	-163	
24	-1	389	-197	379	-128
25	-24	343	-248	438	-110
26	-55	384	-246	407	-71
27	-87	382	-232	350	-53
28	-146	293	-271	395	-5
29	-151	282	-262	440	0
30	-197	558	-63	502	
31	32	-66	596	0	525

NOVEMBER 1973 DISCHARGE AT STATION 1193000

DAY	VOLUME IN MILLIONS OF CUBIC FEET				
1	122	-1	491	-6	455
2	601	-53	265		
3	783	-6	225		
4	831	-25	122		
5	264	-77	404	-77	99
6	355	-72	446	-57	42
7	357	-122	412	-79	22
8	386	-145	420	-108	0
9	404	-214	378	-116	
10	-12	358	-203	413	-73
11	-50	339	-224	398	-56
12	-108	316	-257	395	-20
13	-122	352	-232	433	
14	1	-134	355	-224	404
15	33	-123	360	-246	342
16	72	-166	385	-178	266
17	149	-118	378	-102	202
18	240	-73	444	-50	141
19	288	-102	532	-53	103
20	393	-96	526	-50	47
21	408	-129	450	-128	0
22	395	-170	469	-96	

01193000 Connecticut River near Middletown, Conn.--Continued

```
                 DECEMBER    1973            DISCHARGE AT STATION   1193000

DAY                   VOLUME IN MILLIONS OF CUBIC FEET
  1          -3         692          -4          365
  2         177         -21         530          -16         319
  3         236         -12         552            0         258
  4         248         -65         472          -63         160
  5         304         -89         540          -35         113
  6         420         -44         887
  7         540         -17        1002
  8        1611
  9        1810
 10        2060
 11        2083
 12        2026
 13        1795
 14        1687
 15        1760
 16        1913
 17        1860
 18        1730
 19        1210
 20        1120
 21        2600
 22        8640
 23        9500
 24        7780
 25        6570
 26        5360
 27        5700
 28        7600
 29        8640
 30        7780
 31        6220


                 JANUARY     1974            DISCHARGE AT STATION   1193000

DAY                   VOLUME IN MILLIONS OF CUBIC FEET
  1        5180
  2        3890
  3        3460
  4        2932
  5        2478
  6        2006
  7        1959
  8        1605
  9         806         -51         801
 10         662         -70         492           0
 11         -51         455         -62         459
 12          18         -27        1356
 13        1732
 14        1595
 15        1311
 16        1202
 17        1493
 18         450          -5         726
 19         426         -66         744
 20         535          -9         685
 21         456        -112         660
 22        1717
 23        2066
 24        2307
 25        2352
 26        2270
 27        2314
 28        2981
 29        4025
 30        4536
 31        4059
```

CONNECTICUT RIVER BASIN

01193000 Connecticut River near Middletown, Conn.--Continued

```
                   FEBRUARY    1974            DISCHARGE AT STATION   1193000

 DAY                 VOLUME IN MILLIONS OF CUBIC FEET
   1          3567
   2          3160
   3          2625
   4          2154
   5          1838
   6          1343
   7           664         -19        827
   8          1719
   9          1536
  10          1545
  11          1491
  12          1352
  13          1575
  14          1635
  15          1530
  16          1474
  17           434         -49        624         -3           9
  18           430         -85        488        -35           9
  19           559         -49        562       -107
  20           -12        1572
  21          1499
  22           652         -48        723
  23          2235
  24          2867
  25          3088
  26          2856
  27          2479
  28          2191

                   MARCH       1974            DISCHARGE AT STATION   1193000

 DAY                 VOLUME IN MILLIONS OF CUBIC FEET
   1          1959
   2          1844
   3          1697
   4          1724
   5          1681
   6          2032
   7          3191
   8          3836
   9          4225
  10          4399
  11          3403
  12          2683
  13          2224
  14          1769
  15          1654
  16          1651
  17          2134
  18          3462
  19          3497
  20          2819
  21          2656
  22          3606
  23          3432
  24          2869
  25          2559
  26          2527
  27          2381
  28          2239
  29          1940
  30          1688
  31          1757
```

01193000 Connecticut River near Middletown, Conn.--Continued

```
               APRIL       1974           DISCHARGE AT STATION   1193000

DAY              VOLUME IN MILLIONS OF CUBIC FEET
  1      1807
  2      1750
  3      1853
  4      1995
  5      3070
  6      5096
  7      7057
  8      6996
  9      6281
 10      5785
 11      4841
 12      4247
 13      3824
 14      3462
 15      3587
 16      4986
 17      6222
 18      6562
 19      5934
 20      5062
 21      4350
 22      3909
 23      3576
 24      3650
 25      4280
 26      4868
 27      5071
 28      4560
 29      3773
 30      3280
```

```
               MAY         1974           DISCHARGE AT STATION   1193000

DAY              VOLUME IN MILLIONS OF CUBIC FEET
  1      3077
  2      3928
  3      4454
  4      4668
  5      4384
  6      3782
  7      3478
  8      3185
  9      2723
 10      2522
 11      2720
 12      3078
 13      3806
 14      5227
 15      5751
 16      5305
 17      4318
 18      3590
 19      3120
 20      2735
 21      2299
 22      2027
 23      1778
 24         0       -43         1475
 25         1       -78         1952
 26      2982
 27      3184
 28      3192
 29      3386
 30      3173
 31      2621
```

01193000 Connecticut River near Middletown, Conn.--Continued

JUNE 1974 DISCHARGE AT STATION 1193000

VOLUME IN MILLIONS OF CUBIC FEET

DAY					
1	2186				
2	2290				
3	2086				
4	-9	1824			
5	1697	0			
6	-7	770	-3	612	-3
7	-86	666	-37	587	
8	9	-55	569	-84	501
9	31	-70	534	-126	384
10	39	-134	390	-239	317
11	61	-152	408	-181	312
12	163	-81	436	-134	269
13	223	-67	351	-168	218
14	291	-72	312	-222	131
15	310	-115	305	-214	81
16	377	-131	356	-240	22
17	448	-154	396	-190	4
18	583	-105	420	-167	
19	-1	647	-90	469	-142
20	-27	632	-100	479	-109
21	-73	627	-121	495	-55
22	-134	639	-148	513	-7
23	-193	588	-171	456	
24	6	-225	462	-229	395
25	48	-220	413	-273	344
26	138	-168	418	-235	282
27	221	-130	372	-256	183
28	282	-140	304	-266	118
29	388	-117	353	-244	56
30	430	-172	325	-245	7

JULY 1974 DISCHARGE AT STATION 1193000

VOLUME IN MILLIONS OF CUBIC FEET

DAY					
1	470	-171	271	-274	
2	-7	442	-197	363	-189
3	-35	469	-183	414	-157
4	-58	522	-245	422	-112
5	-97	492	-241	433	-44
6	-136	577	-108	624	
7	2	-95	778	-76	608
8	24	-114	664	-143	562
9	56	-100	535	-189	439
10	66	-154	465	-238	372
11	102	-175	413	-347	313
12	177	-147	418	-254	277
13	264	-121	373	-250	207
14	298	-169	289	-320	117
15	333	-243	281	-314	45
16	416	-226	330	-312	8
17	564	-182	374	-418	
18	-7	574	-245	90	-327
19	-55	562	-297	447	-248
20	-140	579	-602	338	-232
21	-350	534	-424	499	-68
22	-334	502	-447	504	
23	0	-369	540	-483	499
24	40	-337	513	-552	426
25	111	-362	483	-493	354
26	209	-562	366	-475	261
27	318	-303	386	-483	160
28	385	-348	415	-849	
29	0	380	-395	351	-667
30	-8	469	-462	409	-444
31	-4	571	-304	323	-271

01193000 Connecticut River near Middletown, Conn.--Continued

AUGUST 1974 DISCHARGE AT STATION 1193000

DAY	VOLUME IN MILLIONS OF CUBIC FEET				
1	-15	447	-248	285	-229
2	-61	403	-348	337	-167
3	-93	423	-432	370	-131
4	-134	407	-604	299	-71
5	-224	341	-385	337	-42
6	-240	392	-322	405	-2
7	-238	412	-315	425	
8	6	-247	366	-319	374
9	31	-248	346	-457	342
10	69	-274	305	-734	202
11	118	-309	272	-615	199
12	191	-321	267	-921	40
13	284	-319	294	-528	65
14	400	-325	335	-457	11
15	481	-372	385	-866	
16	-233	357	-639	411	-654
17	-236	446	-720	392	-393
18	-183	597	-599	480	-233
19	-272	526	-510	531	-117
20	-394	531	-522	584	-4
21	-371	497	-891	379	
22	12	-364	446	-866	304
23	65	-392	419	-827	244
24	153	-512	347	-983	103
25	240	-317	367	-988	16
26	271	-377	286	-497	89
27	401	-649	274	-449	28
28	462	-371	378	-475	
29	-2	488	-402	415	-585
30	-62	491	-305	303	-197
31	-27	384	-222	400	-162

SEPTEMBER 1974 DISCHARGE AT STATION 1193000

DAY	VOLUME IN MILLIONS OF CUBIC FEET				
1	-52	431	-224	391	-128
2	-100	365	-275	332	-134

01193500 Salmon River near East Hampton, Conn.

LOCATION.--Lat 41°33'11", long 72°26'57", Middlesex County, on right bank at Old Comstock Bridge, 150 ft (46 m) downstream from New London-Middlesex County line, 0.6 mi (1.0 km) downstream from Dickinson Creek, and 3.5 mi (5.6 km) southeast of East Hampton.

DRAINAGE AREA.--102 mi^2 (264 km^2).

PERIOD OF RECORD.--July 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 69.50 ft (21.184 m) above mean sea level.

AVERAGE DISCHARGE.--46 years, 178 ft^3/s (5.041 m^3/s), 23.69 in/yr (602 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,460 ft^3/s (155 m^3/s) Dec. 21, gage height, 5.63 ft (1.716 m); minimum daily, 11 ft^3/s (0.31 m^3/s) Aug. 16.

Period of record: Maximum discharge, 12,400 ft^3/s (351 m^3/s) Sept. 21, 1938, gage height, 10.96 ft (3.341 m), by computation of flow over dam half a mile (0.8 km) upstream; minimum, 1.0 ft^3/s (0.028 m^3/s) Oct. 31, 1935, gage height, -0.17 ft (-0.052 m); minimum daily, about 1 ft^3/s (0.028 m^3/s) Oct. 13, 1929.

PEAK DISCHARGE.--(BASE, 1,300 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
12-21	1645	5.63	5,460
03-21	1800	4.67	3,760

REMARKS.--Records good except those for period of no gage-height record June 23 to Aug. 25, which are fair. Slight regulation at low flow by ponds upstream. Records of water quality for the current year are published in Part 2 of this report. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	355	116	451	375	335	391	186	171	45	22	48
2	32	275	100	415	355	319	331	160	160	44	21	43
3	38	197	95	379	335	299	319	190	130	100	30	51
4	37	134	95	363	255	295	419	243	110	170	50	208
5	34	92	169	319	197	279	407	197	90	120	60	131
6	31	85	556	307	216	254	363	167	75	80	50	70
7	30	78	347	315	255	243	307	171	70	60	35	155
8	30	76	247	243	212	231	287	142	65	50	28	142
9	30	74	435	220	190	227	585	127	60	40	24	87
10	30	72	532	300	178	259	560	222	60	35	21	61
11	30	70	367	320	197	220	443	254	50	30	18	45
12	30	70	283	300	205	208	371	238	45	27	16	37
13	30	70	239	250	224	186	375	447	42	25	14	32
14	31	65	433	240	267	175	403	287	40	25	13	30
15	30	65	391	235	216	171	850	224	40	50	12	32
16	30	60	311	275	150	275	524	186	100	60	11	32
17	30	60	877	227	130	800	403	153	171	50	50	29
18	30	60	643	175	120	471	347	130	80	45	30	24
19	30	57	423	460	120	355	343	120	60	60	25	23
20	30	55	431	403	150	303	323	110	48	50	20	22
21	30	55	3,120	589	130	1,730	287	100	100	34	17	31
22	30	60	1,390	925	600	1,270	263	100	175	32	15	151
2	30	70	718	715	450	635	259	100	120	31	17	86
24	30	90	552	640	400	502	255	138	90	29	19	39
25	29	138	475	506	390	427	239	149	76	28	17	33
26	30	127	526	451	379	387	224	130	65	27	16	33
27	30	98	810	727	339	359	212	120	60	26	14	30
28	30	239	615	601	323	319	197	110	55	25	11	28
29	130	239	506	568	------	299	190	110	50	25	30	498
30	727	164	529	475	------	315	178	110	47	24	54	255
31	451	------	463	423	------	451	------	117	------	23	84	------
TOTAL	2,177	3,350	16,794	12,837	7,358	12,604	10,655	5,243	2,505	1,470	844	2,486
MEAN	70.2	112	542	414	263	407	355	169	83.5	47.4	27.2	82.9
MAX	727	355	3,120	925	600	1,730	850	447	175	170	84	498
MIN	29	55	95	175	120	171	178	100	40	23	11	22
CFSM	.69	1.10	5.31	4.06	2.58	3.99	3.48	1.66	.82	.46	.27	.81
IN.	.79	1.22	6.12	4.68	2.68	4.60	3.89	1.91	.91	.54	.31	.91

CAL YR 1973 TOTAL 102,982 MEAN 282 MAX 4,370 MIN 22 CFSM 2.76 IN 37.56
WTR YR 1974 TOTAL 78,323 MEAN 215 MAX 3,120 MIN 11 CFSM 2.11 IN 28.56

01193800 Hemlock Valley Brook at Hadlyme, Conn.

LOCATION.--41°25'42", long 72°25'23", Middlesex County, on right bank just upstream from culvert on Bone Mill Road at Hadlyme, 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--2.62 mi^2 (6.79 km^2).

PERIOD OF RECORD.--July 1960 to current year.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 37.85 ft (11.537 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 5.22 ft^3/s (0.148 m^3/s), 27.04 in/yr (687 mm/yr).

EXTREMES.--Current year: Maximum discharge, 124 ft/^{3}/s (3.51 m^3/s) Dec. 21, Mar. 21; maximum gage height, 2.00 ft (0.610 m) Mar. 21; minimum discharge, 0.04 ft^3/s (0.001 m^3/s) July 13, 14, 17, gage height, 0.44 ft (0.134 m).

Period of record.--Maximum discharge, 270 ft^3/s (7.65 m^3/s) Mar. 6, 1963, gage height, 2.8 ft (0.85 m); minimum, 0.04 ft^3/s (0.001 m^3/s) July 13, 14, 17, 1974, gage height, 0.44 ft (0.134 m).

PEAK DISCHARGE.--(BASE, 45 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
12-17	1200	1.45	52
12-21	1430	1.99	124
12-27	0200	1.40	46
01-21	2300	1.44	48
02-20	0330	1.62	67
03-21	1800	2.00	124

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	10	4.3	13	8.1	7.9	8.5	4.0	5.3	1.0	.32	.49
2	1.4	6.4	3.8	11	7.5	6.8	6.9	3.5	3.7	.72	.32	2.4
3	1.6	4.7	3.7	9.6	7.7	6.3	6.6	5.3	2.9	1.0	.86	1.6
4	1.6	4.0	3.6	9.8	7.3	6.2	13	5.3	2.2	1.2	.60	5.8
5	1.5	3.6	8.5	8.9	6.9	5.8	9.8	4.0	2.0	1.2	.49	1.5
6	1.4	3.4	19	7.6	6.8	5.4	8.1	3.7	1.6	1.6	.49	.87
7	1.4	3.2	8.8	7.2	6.6	5.5	6.6	3.7	1.4	.86	.40	7.1
8	1.4	3.0	6.4	6.4	6.2	5.2	5.9	3.3	1.4	.60	.49	2.6
9	1.4	3.0	17	6.5	6.0	5.8	16	3.5	1.2	.49	.40	1.3
10	1.6	2.7	18	6.7	6.1	9.0	14	7.3	1.2	.40	.40	1.2
11	1.6	2.6	9.9	9.5	5.7	5.9	11	5.9	.72	.40	.32	1.1
12	1.8	2.7	7.6	8.4	5.0	5.3	8.9	5.3	.86	.32	.32	.95
13	1.9	2.6	6.7	7.7	5.3	4.5	9.3	11	.86	.32	.24	.79
14	2.0	2.6	17	7.7	5.9	4.3	9.3	5.6	.60	.32	.24	.64
15	1.9	2.4	11	6.9	6.1	4.2	16	4.5	.72	.40	.24	.49
16	1.6	2.4	8.7	5.9	5.7	8.1	9.3	4.0	1.6	.60	.24	.45
17	1.8	2.2	36	5.8	4.8	29	6.9	3.5	5.9	.49	.32	.43
18	2.0	2.2	23	5.6	4.5	11	6.6	3.1	2.4	.40	.72	.45
19	1.8	2.1	13	12	10	8.5	7.3	2.9	1.4	.49	.40	.48
20	2.1	1.8	14	12	42	6.9	6.6	2.6	1.0	.49	.32	.49
21	2.2	1.7	64	18	16	49	5.6	2.4	2.4	.40	.32	2.2
22	2.2	2.6	43	33	17	34	5.3	2.4	4.5	.32	.24	3.0
23	2.2	2.2	22	20	16	17	6.2	2.9	3.3	.32	.49	1.0
24	2.2	1.7	16	17	10	13	8.1	3.5	2.9	.32	.49	.68
25	2.2	4.1	13	13	9.1	11	5.6	3.7	2.0	.32	.40	.60
26	2.3	4.3	18	11	8.2	9.3	5.0	3.1	1.8	.32	.32	.60
27	2.3	3.6	35	19	7.1	8.5	4.5	3.3	1.6	.40	.32	.60
28	2.2	8.7	19	14	6.8	7.3	4.5	2.6	1.4	.40	.32	3.6
29	5.2	8.3	15	15	------	6.6	4.5	3.3	1.4	.40	.40	23
30	29	5.0	16	11	------	8.5	4.2	3.3	1.2	.40	1.2	3.6
31	9.8	------	12	9.7	------	12	------	2.6	------	.40	.85	------
TOTAL	95.3	109.8	513.0	348.9	254.4	327.8	240.1	125.1	61.46	17.30	13.48	70.01
MEAN	3.07	3.66	16.5	11.3	9.09	10.6	8.00	4.04	2.05	.56	.43	2.33
MAX	29	10	64	33	42	49	16	11	5.9	1.6	1.2	23
MIN	1.4	1.7	3.6	5.6	4.5	4.2	4.2	2.4	.60	.32	.24	.43
CFSM	1.17	1.40	6.30	4.31	3.47	4.05	3.05	1.54	.78	.21	.16	.89
IN.	1.35	1.56	7.28	4.95	3.61	4.65	3.41	1.78	.87	.25	.19	.99

CAL YR 1973 TOTAL 2,874.94 MEAN 7.88 MAX 71 MIN .59 CFSM 3.01 IN 40.82
WTR YR 1974 TOTAL 2,176.65 MEAN 5.96 MAX 64 MIN .24 CFSM 2.27 IN 30.91

01194500 East Branch Eightmile River near North Lyme, Conn.

LOCATION.--Lat 41°25'40", long 72°20'05", New London County, on left bank at bridge on State Highway 156, 0.4 mi (0.6 km) upstream from mouth, 1.1 mi (1.8 km) north of North Lyme, 1.2 mi (1.9 km) south of North Plain, and 5.5 mi (8.8 km) upstream from mouth of Eightmile River.

DRAINAGE AREA.--22.3 mi^2 (57.8 km^2).

PERIOD OF RECORD.--September 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 54.21 ft (16.523 m) above mean sea level. Prior to Oct. 1, 1964, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--37 years, 44.7 ft^3/s (1.266 m^3/s), 27.22 in/yr (691 mm/yr).

EXTREMES.--Current year: Maximum discharge, 758 ft^3/s (21.5 m^3/s) Mar. 22, gage height, 4.89 ft (1.490 m); minimum, 1.3 ft^3/s (0.037 m^3/s) Aug. 28; minimum gage height, 0.95 ft (0.290 m) Aug. 11-17, 22, 23, 27, 28.

Period of record: Maximum discharge, 2,950 ft^3/s (83.5 m^3/s) Sept. 21, 1938, gage height, 7.00 ft (2.134 m), computed on basis of study of flow at contracted control section; no flow Sept. 3, 1938, result of regulation; minimum daily, about 1.03 ft^3/s (0.001 m^3/s) Oct. 2, 1941.

PEAK DISCHARGE.--(BASE, 300 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
12-18	0100	3.83	400
12-22	0130	4.42	593
01-22	1300	3.63	343
03-22	0200	4.89	758

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	77	40	97	74	67	92	34	34	14	3.5	7.7
2	9.9	68	34	89	64	67	68	31	41	12	3.0	4.8
3	11	43	30	74	58	59	60	35	31	12	2.9	7.4
4	11	34	30	71	57	56	100	49	25	16	3.2	19
5	10	30	33	66	60	52	100	40	20	22	3.5	14
6	9.7	27	88	65	47	49	79	34	18	46	2.7	8.0
7	8.9	25	74	60	49	46	65	34	15	26	2.5	17
8	8.6	23	48	53	48	44	56	33	14	16	2.5	15
9	8.3	23	64	44	47	43	93	31	14	12	2.5	11
10	8.3	21	147	49	65	53	132	39	13	10	2.2	8.0
11	7.8	19	88	61	44	49	101	51	11	8.7	2.0	6.0
12	7.6	19	62	73	42	43	79	43	10	7.0	1.7	5.0
13	7.6	19	51	60	41	39	73	102	9.1	6.1	1.7	4.5
14	8.0	19	109	55	47	37	82	74	8.0	5.6	1.7	4.0
15	8.0	18	135	50	42	37	105	50	7.4	5.6	1.7	4.0
16	7.5	17	82	49	41	38	93	42	19	8.0	1.7	4.0
17	7.1	17	208	49	38	152	69	36	83	7.4	1.7	3.5
18	7.0	16	293	64	36	117	59	33	58	6.4	3.7	3.0
19	7.4	16	130	64	46	70	57	30	31	6.1	3.9	3.0
20	7.9	15	99	84	397	57	57	27	20	14	2.5	3.0
21	8.7	15	251	86	199	196	51	25	25	12	1.8	4.0
22	8.5	18	394	298	131	514	48	25	46	8.0	1.5	16
23	8.1	20	169	204	182	181	48	25	34	5.9	1.6	10
24	8.0	19	118	158	113	124	52	34	31	4.8	1.8	5.0
25	8.0	32	90	122	87	98	48	37	23	4.8	1.9	4.0
26	8.0	38	98	99	78	82	43	33	19	4.8	1.7	4.0
27	7.9	31	237	131	67	73	41	28	18	4.4	1.5	4.0
28	7.6	51	175	137	63	65	39	26	16	4.4	1.4	3.5
29	14	80	120	130	------	59	37	27	15	4.6	1.7	50
30	162	56	118	103	------	64	35	32	14	4.4	3.9	30
31	128	------	110	84	------	100	------	27	------	4.4	12	------
TOTAL	541.4	906	3,725	2,829	2,263	2,731	2,062	1,167	722.5	323.4	81.6	282.4
MEAN	17.5	30.2	120	91.3	80.8	88.1	68.7	37.6	24.1	10.4	2.63	9.41
MAX	162	80	394	298	397	514	132	102	83	46	12	50
MIN	7.0	15	30	44	36	37	35	25	7.4	4.4	1.4	3.0
CFSM	.78	1.35	5.38	4.09	3.62	3.95	3.08	1.69	1.08	.47	.12	.42
IN.	.90	1.51	6.21	4.72	3.78	4.56	3.44	1.95	1.21	.54	.14	.47

CAL YR 1973 TOTAL 21,892.9 MEAN 60.0 MAX 783 MIN 6.7 CFSM 2.69 IN 36.52
WTR YR 1974 TOTAL 17,634.3 MEAN 48.3 MAX 514 MIN 1.4 CFSM 2.17 IN 29.42

Reservoirs in Connecticut River basin

01185000. OTIS RESERVOIR.--Lat 42°09'35", long 73°03'33", Berkshire County, Mass., on Fall River in West Branch Farmington River basin, 1 mi (2 km) northeast of Cold Spring. Drainage area, 15.9 mi^2 (41.2 km^2). Usable capacity, 780,000,000 ft^3 (22,000,000 m^3). Records available, April 1913 to current year. Completed in 1865 for storage of water for power. Records furnished by the Massachusetts Department of Natural Resources, Division of Forests and Parks.

01185850. COLEBROOK RIVER LAKE.--Lat 42°00'22", long 73°02'12", Hartford County, Conn., on West Branch Farmington River, 1.6 mi (2.6 km) upstream from West Branch Reservoir, and 3.1 mi (5.0 km) north of Riverton. Drainage area, 119 mi^2 (308 km^2). Usable capacity, 4,213,000,000 ft^3 (11,900,000 m^3). Records available, June 1969 to current year. Completed in June 1969 for multi-purpose use. Records furnished by Corps of Engineers.

01185900. WEST BRANCH RESERVOIR.--Lat 41°59'22", long 73°01'15", Hartford County, Conn., on West Branch Farmington River, 2 mi (3 km) west of Hartland, and 2 mi (3 km) north of Riverton. Drainage area, 127 mi^2 (329 km^2). Usable capacity, 374,000,000 ft^3 (10,600,000 m^3). Records available, March 1960 to current year. Completed in April 1960 for future storage of water for municipal supply of Hartford. Presently used to compensate for water diverted from the river. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.

01186090. MAD RIVER DETENTION RESERVOIR.--Lat 41°55'53", long 73°05'33", Litchfield County, Conn., on Mad River in West Branch Farmington River basin, 1.4 mi (2.3 km) northwest of Winsted. Drainage area, 18.3 mi^2 (47.4 km^2). Usable capacity, 423,000,000 ft^3 (12,000,000 m^3), including 8,000,000 ft^3 (200,000 m^3) storage in recreation pool. Records available, September 1964 to current year. Completed in 1962 by Corps of Engineers for storage of water for recreation and flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.

01186150. SUCKER BROOK RESERVOIR.--Lat 41°54'09", long 73°06'00", Litchfield County, Conn., at mouth of Sucker Brook, a tributary of Highland Lake in West Branch Farmington River basin, 2 mi (3 km) southwest of Winsted. Drainage area, 3.50 mi^2 (9.06 km^2). Usable capacity, 64,500,000 ft^3 (1,830,000 m^3). Records available, February 1971 to current year. Completed in 1970 by Corps of Engineers for storage of water for flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.

01186160. HIGHLAND LAKE.--Lat 41°55'22", long 73°04'58", Litchfield County, Conn., at head of the Lake Stream, a tributary of Mad River in West Branch Farmington River basin, at Winsted, and 0.4 mi (0.6 km) upstream from Mad River. Drainage area, 7.05 mi^2 (18.26 km^2). Usable capacity, 142,800,000 ft^3 (4,044,000 m^3), based on Lake survey by Conn. Board of Fisheries and Game. Records available, September 1936 to current year. Dam raised to its present crest elevation in 1875. Lake used for storage of water for power, recreation, and flood control. Capacity and contents figures computed by U.S. Geological Survey.

01187500. BARKHAMSTED RESERVOIR.--Lat 41°54'38", long 72°57'15", Litchfield County, Conn., on East Branch Farmington River, 1.2 mi (1.9 km) south of Barkhamsted. Drainage area, 52.5 mi^2 (136.0 km^2). Usable capacity, 4,050,000,000 ft^3 (115,000,000 m^3). Records available, October 1950 to current year. For period March 1940 to September 1950, combined month-end contents for Barkhamsted, East Branch, and Nepaug Reservoirs are given in WSP 1301. Completed in 1939 for storage of water for municipal supply of Hartford. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.

01187600. EAST BRANCH RESERVOIR.--Lat 41°52'49", long 72°57'30", Litchfield County, Conn., on East Branch Farmington River in Farmington River basin, 1 mi (2 km) east of New Hartford. Drainage area, including Barkhamsted Reservoir, 61.2 mi^2 (158.5 km^2). Usable capacity, 393,000,000 ft^3 (11,100,000 m^3). Records available, October 1950 to current year. For period August 1928 to September 1950, combined month-end contents for Barkhamsted, East Branch, and Nepaug Reservoirs are given in WSP 1301. Completed in 1919 for storage of water to compensate for water diverted from the river for municipal supply of Hartford. Since the construction of West Branch Reservoir in April 1960, it has been used only for recreation. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.

01187900. NEPAUG RESERVOIR.--Lat 41°49'37", long 72°56'34", Litchfield County, Conn., on Nepaug River in Farmington River basin, 1.5 mi (2.4 km) northwest of Collinsville. Drainage area, 31.6 mi^2 (81.8 km^2). Usable capacity, 1,270,000,000 ft^3 (36,000,000 m^3). Records available, August 1928 to current year. Completed in 1918 for storage of water for municipal supply of Hartford. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.

01188500. WHIGVILLE RESERVOIR.--Lat 41°44'08", long 72°57'02", Hartford County, Conn., on Whigville Brook in Pequabuck River basin, at Whigville. Drainage area, 4.10 mi^2 (10.62 km^2). Usable capacity, 5,050,000 ft^3 (143,000 m^3). Records available, July 1928 to current year. Completed in 1908 for storage of water for municipal supply of New Britain. Records furnished by Board of Water Commissioners, New Britain, Conn.

Reservoirs in Connecticut River basin--continued

Month-end usable contents, millions of cubic feet, water year October 1973 to September 1974

Date	Otis Reservoir	Colebrook River Lake	West Branch Reservoir	Mad River Detention Reservoir	Highland Lake
Sept. 30, 1973........	676.5	575	279	8.4	36.3
Oct. 31..............	499.5	471	170	8.6	18.4
Nov. 30..............	358.2	530	186	7.0	22.5
Dec. 31..............	346.0	1,979	255	---	124.9
Jan. 31, 1974........	373.6	2,074	377	8.5	142.8
Feb. 28..............	355.1	2,081	377	7.3	124.1
Mar. 31..............	506.5	2,251	377	8.5	127.5
Apr. 30..............	668.8	2,240	377	8.8	119.7
May 31..............	703.3	2,227	377	8.4	141.8
June 30..............	695.7	1,930	377	7.7	130.4
July 31..............	684.2	1,542	377	8.4	136.3
Aug. 31..............	684.2	564	377	8.4	134.4
Sept. 30..............	703.3	612	171	8.6	119.9

Date	Sucker Brook Reservoir	Barkhamsted Reservoir	East Branch Reservoir	Nepaug Reservoir	Whigville Reservoir
Sept. 30, 1973.......	0.04	3,632	374	1,171	2.7
Oct. 31..............	.13	3,502	182	1,163	5.0
Nov. 30..............	.17	3,543	197	1,136	5.1
Dec. 31..............	.17	4,051	393	1,270	5.1
Jan. 31, 1974........	.30	4,051	393	1,270	5.1
Feb. 28..............	.30	4,051	361	1,270	4.9
Mar. 31..............	.70	4,024	393	1,270	5.1
Apr. 30..............	1.00	4,051	393	1,270	4.7
May 31..............	.39	4,051	393	1,270	3.4
June 30..............	.17	3,984	376	1,230	2.5
July 31..............	.17	3,663	369	1,176	3.4
Aug. 31..............	.13	3,716	374	1,123	2.4
Sept. 30..............	.17	3,690	225	1,163	5.1

01195117 Hammonasset River near North Madison, Conn.

LOCATION.--Lat 41°23'07", long 72°36'47", Middlesex County, below unnamed brook, on left bank 1,000 ft (305 m) downstream from Bunnell Road, 2.3 mi (3.7 km) northeast of North Madison and 2.1 mi (3.4 km) upstream from dam at outlet of Hammonasset Reservoir.

DRAINAGE AREA.--18.8 mi² (48.7 km²).

PERIOD OF RECORD.--May to September 1974.

GAGE.--Water-stage recorder. Datum of gage is 267.1 ft (81.41 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge during period, 70 ft³/s (1.98 m³/s) Sept. 30; maximum gage height, 5.53 ft (1.686 m), backwater from dam; minimum discharge, no flow, Aug. 15-17, gage height, 3.55 ft (1.082 m).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									23	8.2	.19	2.7
2									29	7.4	.10	.90
3									23	6.7	.16	1.2
4									18	7.8	.32	13
5									16	6.7	.23	13
6									14	5.8	.10	5.7
7									12	4.3	.06	17
8									11	2.7	.06	28
9									10	1.7	.04	17
10									9.0	1.3	.03	10
11									7.8	1.0	.01	7.4
12									7.0	.67	.01	4.7
13									6.7	.47	.01	2.7
14									5.1	.39	.01	1.5
15									4.3	.40	.01	.90
16									4.7	4.1	0	.47
17								31	20	3.6	.01	.23
18								36	26	2.1	.02	.19
19								35	14	1.9	.19	.16
20								34	10	1.4	.05	.10
21								33	11	1.2	.02	.39
22								32	18	.67	.01	12
23								31	16	.39	.01	16
24								28	15	.27	.03	7.4
25								30	14	.32	.02	3.6
26								26	12	.39	.01	2.1
27								21	11	.32	.01	1.3
28								20	10	.32	.01	1.2
29					------			20	9.5	.34	.01	44
30					------			23	9.0	.39	.19	59
31		------			------		------	21	------	.32	3.9	------
TOTAL									396.1	74.51	5.83	274.44
MEAN									13.2	2.40	.19	9.16
MAX									29	8.2	3.9	59
MIN									4.3	.27	0	.10
CFSM									.70	.13	.01	.49
IN.									.78	.15	.01	.54

01195200 Neck River near Madison, Conn.

LOCATION.--Lat 41°16'57", long 72°37'11", New Haven County, on left bank just upstream from culvert on Fort Path Road, 1.2 mi (1.9 km) west of Madison, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--6.55 mi² (16.96 km²).

PERIOD OF RECORD.--September 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8.93 ft (2.722 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 11.2 ft³/s (0.317 m³/s), 23.22 in/yr (590 mm/yr).

EXTREMES.--Current year: Maximum discharge, 200 ft³/s (5.66 m³/s) Dec. 22, gage height, 3.88 ft (1.183 m); minimum, 0.37 ft³/s (0.010 m³/s) Aug. 15-17, gage height, 0.80 ft (0.244 m).

Period of record: Maximum discharge, 322 ft³/s (9.12 m³/s) Apr. 2, 1970, gage height, 4.58 ft (1.396 m); no flow Sept. 24, 26, 27, 1964, Aug. 1, 1965.

PEAK DISCHARGE.--(BASE, 60 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-22	0300	3.88	200
12-27	1500	2.90	88
01-22	2000	2.84	82
02-20	1530	2.95	92
03-22	0630	3.69	177

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	19	6.7	25	18	14	25	8.6	14	3.5	.43	2.0
2	1.1	14	4.6	23	17	15	18	7.7	20	2.8	.43	3.0
3	1.2	8.6	3.8	19	15	13	15	9.4	10	2.7	.44	2.3
4	1.1	4.9	3.7	17	14	12	33	15	7.3	2.7	1.1	8.8
5	1.1	3.5	4.8	14	11	11	36	11	6.0	3.2	.82	4.7
6	1.0	2.9	20	17	9.0	10	25	8.6	4.9	5.6	.61	2.3
7	.87	2.5	22	16	9.4	9.4	19	8.0	3.7	2.9	.52	4.4
8	.87	2.3	12	14	9.8	8.8	16	7.0	3.4	1.9	.61	11
9	.93	2.2	15	13	11	9.6	24	9.9	3.0	1.7	.56	4.0
10	1.1	2.1	35	15	9.6	14	41	10	2.4	1.3	.44	2.5
11	1.1	2.0	23	16	10	13	29	16	2.3	.99	.46	2.0
12	1.4	2.0	14	22	9.0	10	23	13	1.9	.87	.43	1.8
13	1.3	2.0	10	14	9.2	8.4	21	28	1.9	.82	.43	1.6
14	1.2	2.0	14	15	10	7.7	24	22	1.8	.82	.40	1.5
15	1.1	2.0	18	12	10	7.5	27	13	1.6	.77	.43	1.3
16	1.1	2.1	13	11	8.2	8.2	26	9.4	1.9	.71	.40	1.2
17	1.1	2.0	34	13	8.8	32	19	8.4	11	.66	.46	1.2
18	1.4	1.9	45	11	8.6	29	16	7.3	10	.66	.62	1.1
19	1.6	1.9	23	19	8.4	18	15	6.2	4.1	.66	.77	1.1
20	1.3	1.8	17	21	76	13	16	5.3	2.8	.56	.61	1.2
21	1.4	1.8	79	25	45	37	14	5.1	8.8	.52	.52	2.6
22	1.3	2.2	147	71	26	136	12	4.9	33	.46	.52	11
23	1.4	2.5	49	57	24	48	13	5.1	15	.49	.66	5.2
24	1.4	2.5	29	41	21	29	14	7.7	9.2	.46	.82	2.6
25	1.4	5.6	22	32	17	23	19	13	6.5	.46	.71	2.0
26	1.4	7.7	24	26	14	19	14	9.2	4.9	.46	.66	2.0
27	1.0	5.6	76	31	12	18	11	6.4	4.3	.46	.61	1.9
28	1.1	12	53	34	12	16	10	6.0	4.0	.49	.61	1.9
29	2.0	18	32	31	------	15	9.6	7.3	3.7	.49	.82	28
30	15	12	30	27	------	16	9.2	11	3.7	.49	2.3	24
31	26	------	24	22	------	26	------	7.8	------	.49	2.8	------
TOTAL	76.37	151.6	907.6	732	452.0	646.6	602.8	306.6	207.5	41.12	22.80	141.7
MEAN	2.46	5.05	29.3	23.6	16.1	20.9	20.1	9.89	6.92	1.33	.74	4.72
MAX	26	19	147	71	76	136	41	28	33	5.6	2.8	28
MIN	.87	1.8	3.7	11	8.2	7.5	9.2	4.9	1.6	.46	.40	1.1
CFSM	.38	.77	4.47	3.60	2.46	3.19	3.07	1.51	1.06	.20	.11	.72
IN.	.43	.86	5.15	4.16	2.57	3.67	3.42	1.74	1.18	.23	.13	.80

CAL YR 1973 TOTAL 5,457.50 MEAN 15.0 MAX 213 MIN .67 CFSM 2.29 IN 31.00
WTR YR 1974 TOTAL 4,288.69 MEAN 11.7 MAX 147 MIN .40 CFSM 1.79 IN 24.36

01196500 Quinnipiac River at Wallingford, Conn.

LOCATION.--Lat 41°26'50", long 72°50'29", New Haven County, on right bank on Wilbur Cross Highway, 0.8 mi (1.3 km) downstream from bridge on Quinnipiac Street in Wallingford, and 2 mi (3 km) upstream from Wharton Brook.

DRAINAGE AREA.--110 mi² (285 km²).

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Water-stage recorder and timber control. Datum of gage is 19.24 ft (5.864 m) above mean sea level. Prior to Jan. 27, 1965, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE (adjusted for storage and diversion since October 1960).--44 years, 204 ft³/s (5.777 m³/s), 25.18 in/yr (640 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,180 ft³/s (90.1 m³/s) Dec. 21, gage height, 9.62 ft (2.932 m); minimum, 47 ft³/s (1.33 m³/s) Aug. 16, 17, gage height, 0.85 ft (0.259m).

Period of record: Maximum discharge, 5,230 ft³/s (148 m³/s) Sept. 21, 1938, gage height, 10.55 ft (3.216 m), present datum, by computation of peak discharge over dam 1 mi (2 km) upstream; minimum, 8 ft³/s (0.227 m³/s) Nov. 2, 1930.

PEAK DISCHARGE.--(BASE, 900 ft³/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-21	1630	9.62	3,180	03-21	1930	8.97	2,550
01-22	0130	5.71	973	04-15	0630	5.71	975
01-28	1000	5.64	955	09-04	0300	7.00	1,470
02-22	2030	5.87	1,020				

REMARKS.--Records good. Flow regulated by Wolcott Reservoir (see station 01195800), Broad Brook Reservoir (see station 01196225), Bradley Hubbard Reservoir (see station 01196240), and by mills upstream. Diversion from Wolcott Reservoir for municipal supply of New Britain and diversion into the basin from Merrimere and Elmere Reservoirs for municipal supply of Meriden. Records of water quality for the current year are published in Part 2 of this report. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	248	109	300	365	267	485	147	320	100	90	161
2	88	235	95	294	323	254	381	194	250	97	80	109
3	88	146	88	294	299	248	314	204	250	110	100	217
4	70	115	84	278	267	245	426	250	150	126	130	945
5	70	101	131	265	275	234	488	207	140	102	150	424
6	67	96	344	254	260	161	414	163	130	140	100	201
7	94	87	269	243	260	140	350	194	120	120	80	363
8	76	90	201	230	254	144	230	174	120	94	80	357
9	65	95	311	221	248	275	540	165	120	83	70	198
10	94	90	574	208	234	258	644	227	110	76	65	155
11	62	74	418	224	231	231	453	250	96	71	63	140
12	62	73	244	231	227	207	353	267	94	70	60	121
13	62	75	225	225	224	151	338	400	95	70	58	113
14	65	74	211	214	225	141	367	350	93	65	53	126
15	63	74	194	208	223	176	400	300	88	62	50	126
16	63	97	205	204	214	264	828	250	98	95	47	105
17	63	85	275	149	207	734	400	220	214	76	69	98
18	54	76	267	167	195	522	400	200	165	74	271	92
19	54	73	219	224	220	314	500	200	123	100	148	89
20	88	72	148	213	445	275	400	180	105	110	84	87
21	94	71	1,870	398	437	1,100	310	180	147	90	71	125
22	94	74	2,620	471	540	1,690	320	180	133	81	63	237
23	94	73	1,120	748	680	885	260	230	113	100	67	150
24	85	79	532	817	412	498	250	250	121	150	72	117
25	88	135	374	488	314	396	250	220	114	208	94	99
26	85	126	367	388	285	342	230	190	109	110	58	95
27	88	110	592	648	263	313	220	180	107	100	57	92
28	88	175	513	915	260	288	210	140	107	90	81	85
29	109	141	394	761	-------	271	190	250	104	90	185	842
30	385	138	348	547	-------	288	194	140	104	130	253	567
31	428	-------	319	424	-------	498	-------	250	-------	120	256	-------
TOTAL	2,732	3,298	13,768	11,522	9,408	11,895	11,502	6,827	4,058	3,107	3,039	6,475
MEAN	88.1	110	444	372	300	384	383	220	135	100	98.0	216
MAX	428	248	2,620	915	682	1,690	828	400	320	208	271	945
MIN	54	71	88	147	195	141	194	140	88	62	47	87
(*)	+0.1	+0.9	+22.1	+6.0	+5.1	+7.0	+5.8	+5.8	+1.2	-4.1	-7.6	+15.0
MEAN‡	88.2	110	466	378	305	391	388	224	136	95.9	90.4	229
CFSM‡	0.802	1.00	4.24	3.44	2.77	3.55	3.53	2.04	1.24	0.872	0.822	2.08
IN‡	0.92	1.12	4.89	3.97	2.88	4.09	3.94	2.35	1.38	1.00	0.95	2.32

CAL YR 1973 TOTAL 101,669 MEAN 279 MAX 3,290 MIN 60 MEAN‡ 283 CFSM‡ 2.57 IN‡ 34.96

WTR YR 1974 TOTAL 86,551 MEAN 237 MAX 2,620 MIN 47 MEAN‡ 242 CFSM‡ 2.20 IN‡ 29.81

*Change in contents in Wolcott, Broad Brook, and Bradley Hubbard Reservoirs, diversion from Wolcott Reservoir, and diversion into the basin from Merrimere and Elmere Reservoirs, equivalent in cubic feet per second; records furnished by cities of New Britain and Meriden.

‡Adjusted for diversion and change in contents.

Reservoirs in Quinnipiac River basin

01195800. WOLCOTT RESERVOIR.--Lat 41°36'33", long 72°56'08", New Haven County, Conn., on Roaring Brook in Eightmile River basin, 2.1 mi (3.4 km) northeast of Wolcott. Drainage area, 2.45 mi² (6.35 km²). Completed in 1904 for storage of water for municipal supply of city of New Britain. Usable capacity, 22,700,000 ft³ (643,000 m³). Records available, September 1960 to current year. Records furnished by Board of Water Commissioners, New Britain, Conn.

01196225. BROAD BROOK RESERVOIR.--Lat 41°31'20", long 72°51'34", New Haven County, Conn., on Broad Brook in Quinnipiac River basin, 3 mi (5 km) southwest of Meriden. Drainage area, 4.83 mi² (12.50 km²). Completed in 1907 for storage of water for municipal supply of city of Meriden. Usable capacity, 134,000,000 ft³ (3,800,000 m³). Records available, September 1970 to current year. Records furnished by Water Department, city of Meriden, Conn.

01196240. BRADLEY HUBBARD RESERVOIR.--Lat 41°33'28", long 72°45'47", New Haven County, Conn., on Harbor Brook in Quinnipiac River basin, 2 mi (3 km) northeast of Meriden. Drainage area, 0.59 mi² (1.53 km²). Completed in 1898 and now used for storage of water for municipal supply of city of Meriden. Usable capacity, 22,500,000 ft³ (637,000 m³). Records available, September 1970 to current year. Records furnished by Water Department, city of Meriden, Conn.

Month-end usable contents, in millions of cubic feet, water year October 1973 to September 1974

Date	Wolcott Reservoir	Broad Brook Reservoir	Bradley Hubbard Reservoir
Sept. 30, 1973	4.9	116	19.8
Oct. 31	9.3	110	22.1
Nov. 30	5.3	103	22.5
Dec. 31	22.7	134	22.5
Jan. 31, 1974	22.7	134	22.5
Feb. 28	19.0	134	22.5
Mar. 31	19.9	134	22.5
Apr. 30	16.7	134	22.5
May 31	14.8	134	22.5
June 30	10.1	130	20.7
July 31	2.6	120	19.0
Aug. 31	2.6	107	18.0
Sept. 30	7.9	126	20.5

01196620 Mill River at Hamden, Conn.

LOCATION.--Lat 41°20'09", long 72°54'20", New Haven County, on left bank 300 ft (91.4 m) below dam on Whitney Lake off Whitney Avenue, 1,400 ft (427 m) north of New Haven city line, and 2.9 mi (4.7 km) upstream from mouth at New Haven Harbor.

DRAINAGE AREA.--36.4 mi² (94.3 km²).

PERIOD OF RECORD.--July to September 1974.

GAGE.--Water-stage recorder. Datum of gage is 1.44 ft (0.439 m) below mean sea level.

EXTREMES.--Maximum discharge during period, 340 ft³/s (9.63 m³/s) Sept. 4, gage height, 5.63 ft (1.716 m), backwater from tide; minimum, 1.3 ft³/s (0.037 m³/s) many days in August.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. This site is subject to occasional backwater from high tides. About 6 mgd (22,500 m³/day) is diverted from Whitney Lake to New Haven for water supply. Whitney Lake has a usable capacity of 34,500,000 ft³ (977,000 m³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											3.5	13
2											2.8	8.5
3											12	35
4											8.9	314
5											22	98
6											16	48
7											7.8	132
8											5.0	93
9											3.5	51
10											2.7	36
11											1.9	30
12											1.8	24
13										7.6	1.6	21
14										7.8	1.5	21
15										9.6	1.4	15
16										10	1.6	12
17										5.4	2.0	10
18										5.2	26	9.2
19										7.4	20	8.9
20										5.2	5.7	8.0
21										3.1	3.1	29
22										3.1	2.3	50
23										3.2	1.8	15
24										2.3	1.8	11
25										4.5	1.5	10
26										5.7	1.9	9.5
27										6.6	1.8	9.0
28										5.4	1.5	25
29					------					4.8	1.7	250
30					------					7.8	49	150
31		------			------		------		------	5.7	40	------
TOTAL											254.0	1,541.7
MEAN											8.19	51.4
MAX											49	314
MIN											1.4	8.0

01198800 Hollenbeck River at Huntsville, Conn.

LOCATION.--Lat 41°56'55", long 73°19'18", Litchfield County, on right bank at bridge on State Highway 63, 0.5 mi (0.8 km) northwest of Huntsville.

DRAINAGE AREA.--18.1 mi² (46.9 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1966-67. October 1970 to current year (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 649.57 ft (197.989 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 400 ft³/s (11.3 m³/s) Dec. 21, gage height, 9.58 ft (2.920 m); minimum, 1.0 ft³/s (0.028 m³/s) Aug. 26; minimum gage height, 2.00 ft (0.610 m) Aug. 2, 4.

Period of record: Maximum discharge, 400 ft³/s (11.3 m³/s) Dec. 21, 1973, gage height, 9.58 ft (2.920 m); minimum, 1.0 ft³/s (0.028 m³/s) Aug. 26, 1974.

PEAK DISCHARGE.--(BASE, 200 ft³/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-09	2300	7.80	258	02-23	0500	7.61	243
12-14	1630	7.24	213	03-17	0430	7.72	252
12-21	1800	9.58	400	03-21	2200	7.72	252
12-28	1200	7.99	273	05-13	0430	7.58	240
01-27	2130	7.60	242				

REMARKS.--Records good except those for period of no gage-height record in January, which are fair and those for periods of backwater from debris in October, August, and September, which are poor. Records of water quality for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	34	22	72	60	38	58	49	25	13	4.9	7.8
2	4.4	25	17	62	51	37	66	34	25	12	4.2	5.9
3	4.7	15	15	54	53	32	69	31	20	14	4.0	9.6
4	5.1	9.6	14	51	51	33	73	36	18	16	4.7	55
5	6.9	5.9	28	54	44	42	101	24	16	17	5.1	24
6	7.9	6.2	104	45	43	39	125	26	15	66	4.0	13
7	7.4	5.1	53	40	45	35	71	29	14	28	4.0	16
8	6.7	5.9	34	35	41	32	57	26	13	16	3.8	16
9	5.0	7.4	71	30	40	31	69	24	13	13	3.4	12
10	5.0	6.5	167	35	40	31	55	42	12	11	3.2	8.9
11	5.0	5.6	88	50	39	29	54	49	12	8.9	2.7	7.0
12	4.7	5.4	47	45	37	27	68	43	11	8.0	2.3	5.6
13	4.8	4.9	36	35	35	26	74	164	12	7.2	2.1	5.1
14	4.9	5.9	99	30	35	27	68	66	11	6.2	2.7	4.9
15	5.0	6.5	98	25	35	21	90	49	10	8.4	2.3	5.6
16	4.6	8.2	55	25	35	44	66	41	9.6	12	1.6	4.9
17	3.5	8.2	68	25	37	186	52	35	17	10	2.3	6.3
18	3.1	8.9	60	25	30	68	46	30	15	7.6	4.2	13
19	2.8	8.6	50	25	28	52	49	26	12	7.4	5.1	8.2
20	3.3	7.0	44	27	62	47	48	24	10	15	4.4	10
21	3.1	6.7	284	30	50	84	41	22	14	9.4	4.2	19
22	2.1	7.9	261	45	88	144	37	21	20	6.5	3.2	21
23	2.3	9.6	53	71	173	74	35	24	15	5.1	4.0	11
24	2.0	8.6	42	66	69	68	35	29	14	4.6	5.1	8.2
25	2.8	18	38	49	44	56	33	28	13	5.1	4.6	7.2
26	2.8	20	42	42	41	48	30	25	14	5.6	2.8	6.0
27	1.5	17	191	123	37	44	28	22	14	7.4	2.3	6.0
28	1.8	28	244	171	31	39	25	21	13	7.6	3.8	70
29	2.4	54	163	171	------	35	24	22	11	7.2	4.2	60
30	97	31	106	95	------	35	24	24	11	6.9	7.8	50
31	53	------	80	71	------	53	------	20	------	6.2	12	------
TOTAL	270.0	390.6	2,657	1,724	1,378	1,556	1,671	1,111	424.6	368.3	125.0	497.2
MEAN	8.71	13.0	85.7	55.6	49.2	50.2	55.7	35.8	14.3	11.9	4.03	16.6
MAX	97	54	284	171	173	186	125	164	25	66	12	70
MIN	1.5	4.9	14	25	28	21	24	20	9.6	4.6	1.6	4.9
CFSM	.48	.72	4.73	3.07	2.72	2.77	3.08	1.98	.79	.66	.22	.92
IN.	.55	.80	5.46	3.54	2.83	3.20	3.43	2.28	.88	.76	.26	1.02

CAL YR 1973 TOTAL 15,450.0 MEAN 42.3 MAX 284 MIN 1.5 CFSM 2.34 IN 31.75
WTR YR 1974 TOTAL 12,177.7 MEAN 33.4 MAX 284 MIN 1.5 CFSM 1.85 IN 25.03

01198851 Wangum Lake Brook near Huntsville, Conn.

LOCATION.--Lat 41°56'36", long 73°17'08", Litchfield County, on left bank, 300 ft (90 m) downstream from Under Mountain Road, 1.5 mi (2.4 km) east of Huntsville.

DRAINAGE AREA.--5.32 mi² (13.78 km²).

PERIOD OF RECORD.--October 1970 to current year (discontinued).

GAGE.--Water-stage recorder and V-notch weir. Datum of gage is 678.46 ft (206.795 m) above mean sea level. Prior to Oct. 25, 1972, at site 300 ft (90 m) upstream at same datum.

EXTREMES.--Current year: Maximum discharge, 145 ft³/s (4.11 m³/s), Dec. 21; minimum, 0.2 ft³/s (0.006 m³/s) Aug. 14-17.

Period of record: Maximum discharge, 640 ft³/s (18.1 m³/s) July 3, 1972, gage height, 6.20 ft (1.890 m), at present site and datum, from floodmarks, on basis of slope-area measurement at site 200 ft (60 m) upstream; minimum, 0.01 ft³/s (<0.001 m³/s) Aug. 19, 1971.

Periods of no flow were observed in the summer of 1970.

PEAK DISCHARGE.--(BASE, 60 ft³/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-30	0430	1.52	64	01-28	2300	1.59	73
12-05	2330	1.50	62	02-22	2300	1.86	109
12-09	1730	1.95	122	03-16	2230	1.49	61
12-14	0830	1.55	68	03-21	1730	1.53	66
12-21	2100	unknown	145	04-05	1630	1.52	64
12-28	0530	1.90	115	05-12	2400	1.62	76

REMARKS.--Records fair. Records of water quality for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	16	10	25	19	12	13	12	7.0	3.0	.60	1.2
2	1.8	12	7.7	20	15	10	17	6.3	6.0	3.0	.60	.81
3	2.0	8.1	6.7	17	14	8.9	21	7.0	4.8	4.0	.40	1.9
4	2.2	6.0	6.3	15	14	11	23	7.4	3.5	4.0	.30	8.7
5	2.5	5.1	19	13	12	13	37	5.4	3.0	4.5	.30	4.9
6	3.0	4.5	37	13	10	12	36	5.1	2.5	23	.30	2.9
7	2.8	4.0	20	8.0	10	11	26	5.7	2.5	5.0	.30	4.3
8	2.5	3.5	14	7.5	9.0	9.7	18	5.1	2.5	3.0	.40	3.9
9	1.7	3.3	46	7.0	9.0	8.5	19	4.0	2.0	2.0	.30	2.9
10	1.6	3.0	43	8.0	7.0	8.1	16	8.1	1.5	1.5	.40	2.0
11	1.6	2.6	24	13	6.0	7.7	16	8.1	1.5	1.5	.40	1.4
12	1.6	2.6	18	10	5.5	6.3	21	13	2.0	2.0	.30	.97
13	1.6	2.6	14	7.5	5.0	6.5	27	43	1.5	2.0	.30	.86
14	1.6	2.8	40	6.5	4.5	6.5	22	23	1.3	1.0	.20	.88
15	1.6	2.8	28	6.0	4.0	6.0	25	17	1.3	1.5	.20	.78
16	1.6	4.5	19	6.0	3.5	16	19	14	1.5	1.5	.20	.68
17	1.6	4.0	15	6.0	2.6	39	15	12	3.5	1.3	.20	.67
18	1.5	3.3	14	6.0	2.2	21	13	9.7	3.2	1.2	.30	3.5
19	1.5	3.0	13	6.0	2.6	16	13	7.4	2.0	1.3	.40	1.6
20	1.5	2.8	13	7.0	9.3	13	11	6.3	1.5	1.8	.35	1.5
21	1.2	2.8	90	9.0	6.3	30	10	5.4	3.0	1.5	.30	2.8
22	1.0	3.3	76	15	34	33	8.5	5.1	3.0	1.0	.30	5.2
23	1.0	3.3	41	14	58	23	8.1	6.3	2.5	1.0	.40	3.7
24	.90	3.3	30	15	40	21	7.4	6.7	2.0	.90	.50	2.7
25	.80	7.0	31	12	15	17	7.0	6.7	2.0	.60	.50	2.1
26	.80	8.1	39	11	13	16	5.7	6.3	2.5	.60	2.0	2.0
27	.70	7.4	73	25	11	12	5.1	5.4	2.0	.60	2.0	2.0
28	.70	17	75	46	9.7	10	4.5	4.5	2.0	.60	15	15
29	1.0	20	45	49	------	9.7	4.0	5.1	2.0	.50	13	13
30	25	13	37	30	------	9.3	4.2	5.4	2.0	.50	10	10
31	15	------	30	24	------	12	------	3.5	------	.60	1.8	------
TOTAL	85.60	181.7	974.7	457.5	351.2	435.2	470.5	280.0	77.6	76.50	52.55	104.85
MEAN	2.76	6.06	31.4	14.8	12.5	14.0	15.7	9.03	2.59	2.47	1.70	3.50
MAX	25	20	90	49	58	39	37	43	7.0	23	15	15
MIN	.70	2.6	6.3	6.0	2.2	6.0	4.0	3.5	1.3	.50	.20	.67
CFSM	.52	1.14	5.90	2.78	2.35	2.63	2.95	1.70	.49	.46	.32	.66
IN.	.60	1.27	6.81	3.20	2.46	3.04	3.29	1.96	.54	.53	.37	.73

CAL YR 1973 TOTAL 4,223.96 MEAN 11.6 MAX 94 MIN .57 CFSM 2.18 IN 29.53

WTR YR 1974 TOTAL 3,547.90 MEAN 9.72 MAX 90 MIN .20 CFSM 1.83 IN 24.80

01198860 Deming Brook near Huntsville, Conn.

LOCATION.--Lat 41°57'52", long 73°18'07", Litchfield County, on left bank, 20 ft (6 m) downstream from Under Mountain Road, 0.6 mi (1.0 km) upstream from mouth, and 1.5 mi (2.4 km) northeast of Huntsville.

DRAINAGE AREA.--1.08 mi² (2.80 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 782.81 ft (238.509 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 74 ft³/s (2.10 m³/s) Dec. 21, gage height, 1.91 ft (0.582 m); minimum, 0.01 ft³/s (<.001 m³/s) Aug. 20, 22, 27, gage height, 1.06 ft (0.323 m).

Period of record: Maximum discharge, 109 ft³/s (3.09 m³/s) Feb. 2, 1973, gage height, 2.00 ft (0.610 m); minimum, 0.01 ft³/s (<.001 m³/s) Aug. 20, 22, 27, 1974, gage height, 1.06 ft (0.323 m).

PEAK DISCHARGE.--Base, 20 ft³/s:

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-30	1030	1.65	22	03-17	0130	1.65	22
12-21	0900	1.91	74	03-21	1800	1.66	23
01-27	1830	1.69	27	05-13	0130	1.70	26
02-23	0400	1.74	35				

REMARKS.--Records good except those for period of no gage-height record Nov. 27 to Jan. 22, which are fair. Records of water quality for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	3.2	3.0	3.5	2.0	2.3	3.4	3.2	2.3	1.0	.03	.10
2	.14	3.0	2.5	2.5	1.9	2.1	4.4	1.5	1.6	.34	.03	.10
3	.16	1.6	2.0	2.3	1.9	1.8	4.9	1.6	1.1	1.7	.03	.98
4	.15	1.1	2.0	2.1	1.9	2.3	4.9	1.8	.89	1.2	.03	2.8
5	.22	.82	6.0	2.0	1.7	3.1	8.4	1.3	.74	.75	.05	.60
6	.21	.71	10	2.0	1.6	2.3	7.3	1.2	.55	6.4	.05	.21
7	.16	.63	5.0	1.3	1.5	2.1	4.1	1.4	.42	1.6	.05	1.2
8	.15	.55	4.0	1.0	1.2	1.9	3.1	1.1	.38	.75	.05	.70
9	.13	.63	9.0	1.0	1.1	1.8	3.1	.99	.34	.42	.03	.25
10	.13	.52	15	2.0	.98	1.6	2.6	2.2	.28	.28	.03	.15
11	.13	.42	9.0	3.0	.88	1.5	3.1	1.9	.23	.20	.03	.12
12	.13	.46	5.0	2.5	1.0	1.3	6.3	2.9	.30	.17	.03	.10
13	.13	.49	4.0	1.5	1.0	.98	6.7	11	.60	.16	.03	.08
14	.14	.49	6.5	1.2	.90	.98	4.9	3.7	.25	.13	.03	.15
15	.13	.46	6.5	1.0	.90	.98	5.3	2.8	.19	.94	.03	.10
16	.12	1.2	3.0	1.0	.80	3.8	3.4	2.6	.20	.36	.02	.08
17	.09	.93	2.0	1.0	.48	10	2.6	2.1	.47	.20	.02	.10
18	.08	.67	1.5	1.0	.41	4.1	2.1	1.7	.34	.15	.01	1.2
19	.09	.58	1.4	1.0	.49	3.1	2.8	1.4	.20	.15	.01	.21
20	.12	.47	1.6	1.0	1.6	2.6	2.3	1.2	.15	.15	.01	.21
21	.11	.55	20	1.2	1.5	7.8	1.6	1.1	.75	.10	.01	1.5
22	.10	.65	20	4.5	12	7.8	1.5	1.1	1.1	.08	.01	1.3
23	.10	.50	10	3.5	15	4.4	1.6	1.7	.36	.06	.02	.60
24	.09	1.7	8.0	3.5	4.1	4.3	1.4	1.8	.28	.06	.03	.30
25	.12	2.2	7.0	2.7	3.1	2.8	1.4	1.8	.28	.08	.01	.21
26	.11	1.8	10	2.3	2.1	2.6	1.2	1.6	.61	.08	.01	.21
27	.11	3.0	15	13	1.8	2.1	1.0	1.2	.35	.12	.06	.18
28	.11	5.0	15	9.4	1.8	1.9	.96	1.1	.33	.10	.25	.49
29	.12	6.0	8.0	10	------	1.5	.88	1.4	.25	.06	.08	5.8
30	8.3	4.0	6.0	5.3	------	1.6	.91	1.3	.25	.06	.79	4.4
31	3.7	------	4.0	4.1	------	2.6	------	.96	------	.05	.30	------
TOTAL	15.70	44.33	222.0	93.4	66.46	90.64	98.15	62.65	16.64	17.88	2.17	24.43
MEAN	.51	1.48	7.16	3.01	2.37	2.92	3.27	2.02	.55	.58	.070	.81
MAX	8.3	6.0	20	13	15	10	8.4	11	2.3	6.4	.79	5.8
MIN	.08	.42	1.4	1.0	.41	.98	.88	.96	.15	.05	.01	.08
CFSM	.47	1.37	6.63	2.79	2.19	2.70	3.03	1.87	.51	.54	.06	.75
IN.	.54	1.53	7.65	3.22	2.29	3.12	3.38	2.16	.57	.62	.07	.84

CAL YR 1973 TOTAL 922.64 MEAN 2.53 MAX 26 MIN .06 CFSM 2.34 IN 31.78
WTR YR 1974 TOTAL 754.45 MEAN 2.07 MAX 20 MIN .01 CFSM 1.92 IN 25.99

01198870 Ledgy Brook near Huntsville, Conn.

LOCATION.--Lat 41°58'02", long 73°18'26", Litchfield County, on left bank, at bridge on Under Mountain Road, 0.6 mi (1.0 km) upstream from mouth, and 1.6 mi (2.6 km) northeast of Huntsville.

DRAINAGE AREA.--0.66 mi² (1.71 km²).

PERIOD OF RECORD.--October 1970 to current year (discontinued).

GAGE.--Water-stage recorder, and timber dam and V-notch weir. Datum of gage is 765.38 ft (233.288 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 46 ft³/s (1.30 m³/s) Dec. 21, gage height, 2.91 ft (0.887 m); minimum, 0.01 ft³/s (<0.001 m³/s) Aug. 16, 21, 22, gage height, 0.99 ft (0.302 m).

Period of record: Maximum discharge, about 70 ft³/s (1.98 m³/s) Feb. 2, 1973; minimum, 0.01 ft³/s (<0.001 m³/s) Oct. 4, 1972, Aug. 16, 21, 22, 1974; minimum gage height, 0.99 ft (0.302 m) Aug. 16, 21, 22, 1974.

PEAK DISCHARGE.--(BASE, 15 ft³/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-05	2230	2.44	16	02-22	2330	2.56	24
12-09	1630	2.56	20	03-21	1900	2.33	15
12-21	1200	2.91	46	05-12	2400	2.46	19
01-22	1000	2.33	15				

REMARKS.--Records good except those for period of no gage-height record Dec. 21 to Jan. 30, which are fair. Records of water quality for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	2.0	.78	1.5	1.8	1.3	1.5	1.6	1.1	.32	.03	.07
2	.03	1.3	.57	1.5	1.4	1.1	2.5	.97	.94	.20	.03	.06
3	.03	.70	.50	1.2	1.3	1.0	3.2	.97	.67	.57	.03	.48
4	.03	.50	.46	1.1	1.1	1.2	2.9	1.1	.55	.53	.04	1.3
5	.04	.42	2.8	1.0	.94	1.5	5.4	.84	.46	.44	.04	.40
6	.03	.37	6.1	.80	.81	1.4	4.9	.75	.40	4.7	.03	.17
7	.03	.35	1.7	.70	.78	1.2	2.4	.78	.35	.97	.02	.57
8	.03	.29	1.2	.60	.72	1.1	1.8	.70	.32	.48	.02	.50
9	.03	.26	6.4	.60	.67	.94	1.7	.65	.31	.32	.02	.23
10	.03	.23	5.6	.70	.62	.90	1.3	1.2	.26	.23	.02	.14
11	.03	.20	2.1	1.5	.60	.81	1.5	1.2	.23	.57	.02	.10
12	.03	.20	1.5	1.2	.55	.72	3.6	2.3	.26	.12	.02	.08
13	.03	.20	1.2	.90	.60	.65	4.7	9.3	.34	.10	.01	.06
14	.03	.21	4.5	.80	.60	.63	2.7	2.7	.23	.09	.02	.09
15	.02	.20	2.6	.55	.50	.60	3.2	1.8	.19	.37	.01	.07
16	.02	.32	1.6	.55	.46	1.2	2.1	1.6	.17	.21	.01	.05
17	.01	.32	1.3	.50	.46	7.8	1.6	1.3	.37	.11	.02	.06
18	.02	.26	1.1	.50	.42	2.5	1.3	1.1	.26	.09	.02	.28
19	.02	.24	.94	.55	.48	1.7	1.6	.87	.17	.10	.02	.10
20	.03	.20	1.0	.60	.97	1.4	1.4	.75	.14	.09	.01	.15
21	.02	.19	20	.60	.84	5.6	1.1	.67	.35	.07	.01	1.1
22	.02	.26	10	2.2	8.1	6.1	.97	.62	.42	.06	.01	1.1
23	.02	.24	5.0	2.5	12	2.8	.90	.81	.26	.05	.02	.44
24	.01	.26	3.0	2.5	3.1	2.7	.84	.84	.21	.05	.03	.29
25	.02	.97	2.5	2.0	2.0	2.0	.81	.87	.19	.06	.02	.21
26	.02	1.1	3.0	1.6	1.4	1.6	.72	.84	.24	.05	.02	.20
27	.02	.75	4.0	4.5	1.2	1.3	.65	.70	.21	.08	.05	.60
28	.02	2.6	4.0	5.5	1.1	1.1	.62	.62	.19	.06	.08	6.5
29	.03	2.5	3.0	6.0	------	.90	.57	.70	.15	.06	.04	5.5
30	4.1	1.2	2.5	3.5	------	.96	.62	.67	.15	.05	.23	4.5
31	1.6	------	2.0	2.5	------	1.4	------	.55	------	.05	.16	------
TOTAL	6.43	18.84	102.95	50.75	45.52	56.11	59.10	40.37	10.09	11.25	1.11	25.40
MEAN	.21	.63	3.32	1.64	1.63	1.81	1.97	1.30	.34	.36	.036	.85
MAX	4.1	2.6	20	6.0	12	7.8	5.4	9.3	1.1	4.7	.23	6.5
MIN	.01	.19	.46	.50	.42	.60	.57	.55	.14	.05	.01	.05
CFSM	.32	.95	5.03	2.48	2.47	2.74	2.98	1.97	.52	.55	.05	1.29
IN.	.36	1.06	5.80	2.86	2.57	3.16	3.33	2.28	.57	.63	.06	1.43

CAL YR 1973 TOTAL 514.75 MEAN 1.41 MAX 20 MIN .01 CFSM 2.14 IN 29.01
WTR YR 1974 TOTAL 427.92 MEAN 1.17 MAX 20 MIN .01 CFSM 1.77 IN 24.12

01198880 Wangum Lake Brook near South Canaan, Conn.

LOCATION.--Lat 41°57'42", long 73°18'52", Litchfield County, on right bank just downstream from bridge on Barnes Road, 1.1 mi (1.8 km) east of South Canaan.

DRAINAGE AREA.--10.1 mi² (26.2 km²).

PERIOD OF RECORD.--October 1970 to current year (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 646.35 ft (197.007 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 172 ft³/s (4.87 m³/s) Dec. 21, gage height, 6.71 ft (2.045 m); minimum, 0.48 ft³/s (0.013 m³/s) Aug. 17, 23, gage height, 1.99 ft (0.607 m).

Period of record: Maximum discharge, 172 ft³/s (4.87 m³/s) Dec. 21, 1973, gage height, 6.71 ft (2.045 m); minimum, 0.10 ft³/s (0.003 m³/s) July 28, 1971.

PEAK DISCHARGE.--(BASE, 80 ft³/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-06	0630	5.48	94	02-23	0230	6.29	142
12-14	1830	5.38	89	03-17	0700	5.76	108
12-21	1200	6.71	172	03-22	0030	5.84	112
12-28	1200	6.26	140	04-06	0100	5.56	98
01-27	2130	5.98	108	05-13	0630	5.78	109

REMARKS.--Records good. Records of water quality for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	33	15	44	34	24	30	23	15	6.6	1.4	2.8
2	3.0	26	13	35	27	24	34	11	14	4.1	1.1	3.0
3	3.5	14	11	30	25	21	40	11	8.8	8.1	1.2	5.2
4	3.5	10	10	27	22	22	42	13	7.8	8.1	1.1	18
5	4.5	8.3	29	22	21	26	55	7.5	6.7	7.3	1.3	8.3
6	5.0	7.1	79	22	20	24	79	5.7	5.7	42	1.1	5.5
7	4.0	6.3	38	19	18	22	47	8.0	4.4	17	1.1	8.3
8	3.5	6.0	26	13	17	20	37	5.5	4.2	8.6	.95	7.5
9	3.0	6.5	50	12	15	20	42	3.9	4.2	5.9	.95	4.9
10	3.0	5.1	107	15	13	19	35	13	3.5	4.9	1.1	3.7
11	3.0	4.4	49	24	12	17	33	16	3.0	3.7	.84	2.5
12	3.0	4.4	33	22	11	16	41	20	3.0	3.1	.77	1.9
13	3.0	4.1	24	18	11	12	52	89	4.7	2.7	.67	1.6
14	3.0	4.1	59	12	10	14	45	41	3.0	2.3	.89	2.2
15	2.5	4.1	62	11	10	10	48	28	2.5	5.1	.98	2.4
16	2.2	7.4	36	11	9.5	21	39	25	2.8	4.7	.89	1.3
17	2.0	7.7	33	10	9.2	88	31	20	7.0	3.2	.70	1.5
18	2.3	8.3	29	9.7	9.1	43	27	16	4.7	2.6	1.3	9.1
19	2.2	5.4	21	11	9.6	33	28	13	3.0	2.3	1.1	4.2
20	2.7	4.9	20	12	25	29	25	11	2.5	2.3	.84	3.0
21	2.8	4.4	135	14	19	50	21	9.4	6.7	2.1	.65	8.3
22	2.5	5.4	137	35	51	85	18	8.5	9.4	1.9	.51	11
23	2.2	5.7	93	32	126	46	16	13	5.2	1.6	.80	7.0
24	2.0	5.4	57	33	82	43	14	15	4.2	1.7	2.2	5.2
25	1.8	13	39	24	34	35	14	15	3.5	1.8	1.1	4.4
26	1.6	15	66	25	27	38	9.1	14	4.4	1.7	.82	3.7
27	1.8	13	131	73	22	27	7.3	9.9	3.9	2.0	2.0	4.5
28	1.5	28	131	94	21	24	5.9	8.6	3.5	1.8	2.6	35
29	2.2	43	49	102	------	20	4.9	9.4	3.5	1.7	2.0	25
30	53	26	89	68	------	22	5.2	9.7	3.5	2.0	4.4	20
31	35	------	50	43	------	31	------	7.8	------	1.9	4.4	------
TOTAL	167.9	334.0	1,748	922.7	709.4	918	925.4	501.2	158.3	164.8	41.76	221.0
MEAN	5.42	11.1	56.4	29.8	25.3	29.6	30.8	16.2	5.28	5.32	1.35	7.37
MAX	53	43	137	102	126	88	79	89	15	42	4.4	35
MIN	1.5	4.1	10	9.7	9.1	10	4.9	3.9	2.5	1.6	.51	1.3
CFSM	.54	1.10	5.58	2.95	2.50	2.93	3.05	1.60	.52	.53	.13	.73
IN.	.62	1.23	6.44	3.40	2.61	3.38	3.41	1.85	.58	.61	.15	.81

CAL YR 1973 TOTAL 7,920.70 MEAN 21.7 MAX 137 MIN 1.3 CFSM 2.15 IN 29.17
WTR YR 1974 TOTAL 6,812.46 MEAN 18.7 MAX 137 MIN .51 CFSM 1.85 IN 25.09

01199000 Housatonic River at Falls Village, Conn.

LOCATION.--Lat 41°57'26", long 73°22'11", Litchfield County, on left bank at hydroelectric plant of Hartford Electric Light Company at Falls Village, 1.4 mi (2.3 km) downstream from Hollenbeck River, and at mile 75.9 (122.1 km).

DRAINAGE AREA.--634 mi² (1,642 km²).

PERIOD OF RECORD.--July 1912 to current year.

GAGE.--Water-stage recorder. Datum of gage is 529.06 ft (161.257 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 26, 1964, at site 0.6 mi (1.0 km) downstream at datum 6.72 ft (2.048 m) lower.

AVERAGE DISCHARGE.--62 years, 1,066 ft³/s (30.19 m³/s), 22.81 in/yr (579 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,260 ft³/s (262 m³/s) Dec. 23, gage height, 9.84 ft (2.999 m); minimum, 17 ft³/s (0.48 m³/s) July 14; minimum daily, 62 ft³/s (1.76 m³/s) Aug. 14.

Period of record: Maximum discharge, 23,900 ft³/s (677 m³/s) Jan. 1, 1949, gage height, 19.4 ft (5.91 m), present datum, from floodmark; practically no flow at times when power plant was shut down; minimum daily, 24 ft³/s (0.68 m³/s) Oct. 15, 1914, Sept. 18, 1932.

PEAK DISCHARGE.--(BASE, 3,600 ft³/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-23	0250	9.84	9,260	04-07	1200	5.70	3,720
12-29	0730	8.03	6,750	04-16	1630	5.67	3,680
01-29	1700	5.76	3,800	05-14	0630	5.97	4,070
02-23	1900	6.08	4,210				

REMARKS.--Records excellent. Low flow completely regulated by power plant of Hartford Electric Light Company. Records of water quality at reservoir 0.4 mi (0.6 km) upstream for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	433	1,300	1,150	3,800	2,450	1,720	1,760	1,490	1,290	595	349	930
2	349	1,230	956	3,120	2,090	1,730	1,840	1,900	1,030	561	348	671
3	342	1,070	872	2,610	1,790	1,650	2,070	1,750	1,040	589	176	720
4	260	856	796	2,290	1,640	1,640	2,130	1,600	1,640	1,320	257	1,250
5	255	647	837	2,050	1,510	1,660	2,400	1,410	1,190	1,160	447	1,490
6	276	636	1,710	1,910	1,290	1,790	3,290	1,220	1,050	1,450	386	1,150
7	366	706	1,640	1,790	1,510	1,830	3,350	1,340	917	1,900	359	1,100
8	230	576	1,690	1,560	1,430	1,740	2,900	1,280	801	1,460	346	1,000
9	266	521	1,450	1,100	1,390	1,660	2,630	1,240	737	1,050	287	827
10	282	519	2,450	1,230	1,200	1,460	2,370	1,230	666	781	264	685
11	312	473	2,560	1,440	1,240	1,430	2,200	1,500	666	611	203	546
12	379	442	2,120	1,570	1,130	1,290	2,420	1,700	623	597	236	527
13	306	426	1,420	1,200	1,160	1,190	2,630	3,080	616	624	512	451
14	181	471	1,400	1,100	1,170	1,030	2,720	4,020	615	219	62	622
15	201	495	2,110	1,000	1,040	955	3,110	3,720	593	501	80	945
16	276	507	2,010	1,320	904	1,040	3,640	3,110	540	509	390	915
17	273	532	1,500	1,270	985	2,490	3,550	2,510	617	597	275	653
18	301	494	1,210	928	951	2,430	3,070	2,210	802	499	293	644
19	285	536	1,420	1,090	902	2,480	2,560	1,900	801	474	325	592
20	341	438	1,460	1,260	1,140	2,060	2,230	1,700	627	407	315	534
21	329	468	3,620	1,200	1,310	2,080	1,960	1,500	665	308	252	746
22	299	469	6,270	1,560	1,610	3,240	1,810	1,300	937	422	236	1,080
23	305	450	9,090	1,840	3,750	3,070	1,750	1,260	801	373	235	1,100
24	321	471	7,410	1,970	3,900	2,770	1,610	1,550	713	289	375	1,110
25	324	573	4,960	1,880	3,360	2,720	1,580	1,670	617	205	332	729
26	366	675	4,210	1,710	2,540	2,450	1,530	1,860	661	325	390	807
27	264	738	4,470	2,100	1,970	2,190	1,340	1,630	670	353	351	768
28	259	668	6,050	3,340	1,800	1,910	1,210	1,520	679	308	355	761
29	413	1,280	6,660	3,710	------	1,770	1,200	1,360	604	414	338	1,060
30	444	1,390	5,880	3,510	------	1,650	1,130	1,300	563	373	628	1,620
31	1,400	------	4,740	2,940	------	1,610	------	1,230	------	338	1,040	------
TOTAL	11,243	20,305	97,671	59,378	47,252	59,015	68,090	56,230	25,371	20,244	10,440	28,117
MEAN	363	677	3,151	1,915	1,688	1,904	2,270	1,814	846	653	337	871
MAX	1,400	1,390	9,090	3,800	3,900	3,240	3,640	4,020	1,640	1,900	1,040	1,620
MIN	181	426	756	924	902	955	1,130	1,220	540	205	62	451
CFSM	.57	1.07	4.97	3.02	2.66	3.00	3.58	2.86	1.33	1.03	.53	1.37
IN.	.66	1.19	5.73	3.48	2.77	3.46	4.00	3.30	1.49	1.19	.61	1.53

CAL YR 1973 TOTAL 548,730 MEAN 1,503 MAX 9,090 MIN 181 CFSM 2.37 IN 32.20
WTR YR 1974 TOTAL 501,356 MEAN 1,374 MAX 9,090 MIN 62 CFSM 2.17 IN 29.42

01199050 Salmon Creek at Lime Rock, Conn.

LOCATION.--Lat 41°56'32", long 73°23'29", Litchfield County, on left bank 300 ft (90 m) upstream from bridge on Uptown Salisbury Road, 0.6 mi (1.0 km) north of Lime Rock, and 3.0 mi (4.8 km) upstream from mouth.

DRAINAGE AREA.--29.4 mi² (76.1 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 620.37 ft (189.089 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 44.6 ft³/s (1.263 m³/s), 20.60 in/yr (523 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,300 ft³/s (36.8 m³/s), Dec. 21, gage height, 5.38 ft (1.640 m); minimum, 5.9 ft³/s (0.17 m³/s) Aug. 21, 22, 23, gage height, 0.90 ft (0.274 m).

Period of record: Maximum discharge, 1,300 ft³/s (36.8 m³/s) Dec. 21, 1973, gage height, 5.38 ft (1.640 m); minimum, 0.7 ft³/s (0.020 m³/s) Sept. 25, 1964, gage height, 0.77 ft (0.235 m).

Flood of Aug. 19, 1955, reached a stage of about 13.5 ft (4.11 m), from floodmarks, discharge, 6,300 ft³/s (178 m³/s), from rating curve extended above 350 ft³/s (9.91 m³/s) on basis of contracted-opening measurement of peak flow.

PEAK DISCHARGE.--(BASE, 250 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-21	1800	5.38	1,300
12-28	1500	2.80	340
02-23	0700	2.69	307
03-22	0230	2.60	280

REMARKS.--Records excellent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	38	95	114	95	70	88	91	62	27	11	17
2	10	39	93	113	82	70	95	59	53	21	11	16
3	11	35	91	98	84	65	96	58	43	40	11	27
4	11	31	91	93	75	70	89	61	40	31	13	91
5	12	28	64	84	75	80	105	92	38	23	33	35
6	11	27	105	60	70	70	129	64	37	48	16	23
7	11	26	68	79	65	56	101	95	29	26	13	39
8	10	25	59	71	69	55	89	49	27	22	12	34
9	10	24	48	84	68	56	115	65	26	18	11	27
10	11	24	167	97	69	54	105	61	23	17	11	26
11	15	24	93	85	59	49	104	59	22	15	9.6	26
12	15	24	78	78	62	48	120	60	23	13	9.6	26
13	14	23	70	75	56	42	128	102	30	13	9.1	25
14	14	32	63	70	59	40	121	99	28	13	9.6	30
15	14	32	79	70	54	40	148	82	23	24	9.1	27
16	15	35	60	68	51	58	125	79	24	23	8.6	23
17	16	35	58	61	50	153	104	69	39	16	11	23
18	16	38	55	64	48	81	92	60	29	14	23	43
19	16	36	50	65	47	69	100	53	23	21	11	37
20	18	32	52	67	74	68	91	60	21	20	7.2	39
21	18	32	541	65	65	103	80	45	28	40	6.3	80
22	15	37	449	99	104	179	75	43	38	12	5.9	79
23	15	38	233	88	272	97	75	54	26	11	7.2	46
24	13	35	145	80	200	98	69	57	24	11	11	35
25	13	45	119	76	100	88	65	57	23	13	7.7	30
26	13	54	128	74	80	74	58	49	26	13	6.8	30
27	13	67	290	145	70	72	55	44	21	15	6.8	29
28	12	57	308	164	65	69	50	40	22	14	19	31
29	13	70	227	160	------	62	47	46	19	13	12	24
30	58	58	170	123	------	63	46	46	18	13	35	117
31	38	------	136	107	------	78	------	39	------	13	26	------
TOTAL	479	1,073	4,191	2,837	2,267	2,271	2,763	1,868	878	613	393.5	1,213
MEAN	15.5	35.8	135	91.5	81.0	73.3	92.1	60.3	29.3	19.8	12.7	40.4
MAX	58	70	541	160	272	179	148	102	62	48	35	117
MIN	10	23	50	60	47	40	46	39	18	11	5.9	16
CFSM	.53	1.22	4.59	3.11	2.76	2.49	3.13	2.05	1.00	.67	.43	1.37
IN.	.61	1.36	5.30	3.59	2.87	2.87	3.50	2.36	1.11	.78	.50	1.53

CAL YR 1973 TOTAL 25,135.0 MEAN 68.9 MAX 623 MIN 10 CFSM 2.34 IN 31.80
WTR YR 1974 TOTAL 20,846.5 MEAN 57.1 MAX 541 MIN 5.9 CFSM 1.94 IN 26.38

01198200 Guinea Brook at Ellsworth, Conn.

LOCATION.--Lat 41°49'27", long 73°25'30", Litchfield County, on left bank just upstream from culvert on West Woods Road, 0.4 mi (0.6 km) southwest of Ellsworth, 3 mi (5 km) west of Cornwall Bridge, and 4.5 mi (7.2 km) southeast of Sharon.

DRAINAGE AREA.--3.50 mi² (9.06 km²).

PERIOD OF RECORD.--July 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,141.60 ft (347.960 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 6.29 ft³/s (0.178 m³/s), 24.41 in/yr (620 mm/yr).

EXTREMES.--Current year: Maximum discharge, 319 ft³/s (9.03 m³/s) Dec. 21, gage height, 5.84 ft (1.780 m); no flow Aug. 16, 17, gage height, 0.45 ft (0.137 m).

Period of record: Maximum discharge, 319 ft³/s (9.03 m³/s) Dec. 21, 1973, gage height, 5.84 ft (1.780 m); no flow many days in 1962, 1964-68, 1970, 1974.

PEAK DISCHARGE.--(BASE, 50 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-21	1430	5.84	319
12-27	0500	2.62	62

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	3.9	3.7	19	15	9.4	15	12	5.6	1.5	.14	.70
2	.25	3.5	2.8	18	12	8.9	17	7.3	5.8	1.1	.10	.70
3	.28	2.4	2.7	14	12	7.1	15	7.1	3.9	2.6	.14	2.5
4	.26	1.8	2.6	13	11	8.3	14	9.4	3.2	3.5	.30	12
5	.45	1.5	8.3	15	11	9.1	20	6.2	2.4	9.4	.26	4.4
6	.41	1.4	22	11	11	7.3	23	5.6	1.8	9.9	.14	1.6
7	.31	1.2	13	9.4	11	6.9	16	7.6	1.2	3.9	.12	2.3
8	.30	1.1	8.9	8.3	9.7	7.1	13	6.2	.90	.97	.12	1.9
9	.27	1.0	16	6.6	8.5	6.9	17	5.4	.76	.52	3.3	.97
10	.26	.97	31	6.9	8.0	7.8	15	11	.58	.34	.17	.58
11	.26	.93	19	9.4	7.0	7.3	15	12	1.2	2.3	.07	.42
12	.24	.97	15	9.4	6.5	6.4	19	13	.42	.90	.06	.34
13	.23	1.0	12	6.6	6.0	6.2	16	34	.90	.17	.04	.47
14	.29	1.2	25	5.6	6.0	5.0	15	19	.63	.12	.05	.47
15	.29	1.1	23	5.4	5.5	4.8	19	15	.38	.47	.02	.26
16	2.1	1.2	15	6.0	5.5	11	15	13	.42	.76	0	.20
17	1.2	1.1	10	5.8	5.0	28	12	11	2.3	.38	.04	.17
18	.40	1.0	11	3.8	5.0	15	11	9.7	2.0	.23	.30	.30
19	1.1	.96	8.5	3.8	7.0	13	12	7.8	1.1	.30	.97	.23
20	.41	.88	6.9	3.3	13	12	12	6.9	.83	1.5	.12	1.7
21	.42	.83	133	5.0	5.8	22	9.7	6.4	1.3	.63	.06	.63
22	.95	1.3	66	12	14	30	8.6	5.8	3.2	.30	.04	.83
23	.39	1.3	38	9.9	23	19	8.9	7.1	2.3	.17	1.9	13
24	.27	1.2	27	11	14	17	9.1	9.4	2.4	.47	.47	4.1
25	.48	3.0	22	9.7	9.7	15	7.6	6.9	1.5	6.4	.08	.38
26	.48	3.3	34	8.6	9.4	13	6.6	5.4	1.5	3.3	.05	.23
27	.24	2.8	56	25	8.6	12	6.0	4.6	1.6	.47	.07	.17
28	.17	6.1	50	29	7.3	11	5.6	4.3	1.2	.26	.60	.83
29	.27	9.7	36	30	------	8.9	5.4	5.0	.83	.38	.50	14
30	15	5.7	27	21	------	8.1	5.4	5.4	.70	.38	1.0	16
31	7.5	------	22	18	------	12	------	3.6	------	.26	1.1	------
TOTAL	35.75	64.34	767.4	359.5	267.5	355.5	383.9	283.1	52.85	53.88	12.33	82.38
MEAN	1.15	2.14	24.8	11.6	9.55	11.5	12.8	9.13	1.76	1.74	.40	2.75
MAX	15	9.7	133	30	23	30	23	34	5.8	9.9	3.3	16
MIN	.17	.83	2.6	3.3	5.0	4.8	5.4	3.6	.38	.12	0	.17
CFSM	.33	.61	7.09	3.31	2.73	3.29	3.66	2.61	.50	.50	.11	.79
IN.	.38	.68	8.16	3.82	2.84	3.78	4.08	3.01	.56	.57	.13	.88

CAL YR 1973 TOTAL 3.314.97 MEAN 9.08 MAX 133 MIN .12 CFSM 2.59 IN 35.23
WTR YR 1974 TOTAL 2.718.43 MEAN 7.45 MAX 133 MIN 0 CFSM 2.13 IN 28.89

01200000 Tenmile River near Gaylordsville, Conn.

LOCATION.--Lat 41°39'32", long 73°31'44", Dutchess County, New York, on right bank 0.1 mi (0.2 km) downstream from Deuel Hollow Brook, 1.2 mi (1.9 km) upstream from New York-Connecticut State line, 1.7 mi (2.7 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of Gaylordsville.

DRAINAGE AREA.--203 mi² (526 km²).

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for period October to December 1929, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 304.4 ft (92.78 m) above mean sea level (levels by Connecticut Light and Power Company).

AVERAGE DISCHARGE.--45 years, 295 ft³/s (8.354 m³/s), 19.74 in/yr (501 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,730 ft³/s (162 m³/s) Dec. 22, gage height, 8.46 ft (2.579 m); minimum, 33 ft³/s (0.93 m³/s) Aug. 17, gage height, 0.79 ft (0.241 m).

Period of record: Maximum discharge, 17,400 ft³/s (493 m³/s) Aug. 19, 1955, gage height, 14.9 ft (4.54 m), from high-water mark, from rating curve extended above 9,800 ft³/s (278 m³/s); minimum, 5 ft³/s (0.142 m³/s) Sept. 8, 1957; minimum gage height, 0.52 ft (0.158 m) Sept. 24, 26, 1939; minimum daily discharge, 7 ft³/s (0.198 m³/s) Oct. 7, 1957.

PEAK DISCHARGE.--(BASE, 1,400 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-22	0800	8.46	5,730
12-28	1100	5.54	2,300
01-29	1600	4.61	1,520

REMARKS.--Records excellent. Infrequent regulation at low flow. Records of water quality for the current year are published in Part 2 of Water Resources Data for New York, and in Part 2 of this report. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	120	101	977	854	444	651	382	247	182	62	76
2	54	100	86	880	725	468	626	338	262	98	57	64
3	53	91	76	716	601	421	617	338	217	150	54	93
4	52	78	72	667	586	425	613	382	203	144	54	305
5	54	72	89	588	534	425	718	315	175	136	54	289
6	54	65	262	564	495	403	951	288	152	203	55	165
7	53	61	195	525	494	375	765	312	135	139	55	161
8	53	58	152	464	460	368	660	288	124	109	52	147
9	52	58	253	383	421	338	972	259	119	92	49	114
10	52	54	555	420	376	371	978	331	114	88	48	93
11	50	53	383	460	342	365	886	382	108	72	44	83
12	49	52	310	458	339	321	913	418	100	66	41	74
13	49	51	255	350	340	280	845	945	105	62	39	69
14	51	51	361	320	365	256	814	691	93	62	37	69
15	49	50	397	300	309	256	978	588	88	74	35	77
16	48	52	313	365	267	302	902	488	89	107	34	68
17	47	58	214	350	279	824	769	425	117	89	34	60
18	49	57	261	266	252	664	664	371	114	73	48	63
19	50	54	317	351	258	564	639	331	95	72	51	66
20	51	52	342	356	474	534	630	292	83	74	41	68
21	51	50	2,890	363	450	682	557	282	81	69	38	69
22	51	52	5,050	604	484	1,180	511	242	120	63	35	100
23	50	56	2,650	618	950	860	493	282	121	61	34	97
24	50	57	1,630	848	700	779	474	315	112	58	41	76
25	50	75	1,040	600	597	682	436	283	105	60	42	69
26	50	94	1,040	557	507	601	403	259	112	60	38	64
27	50	88	2,000	860	445	957	365	236	107	65	35	62
28	50	102	2,150	1,370	427	508	341	214	100	73	34	65
29	60	148	1,830	1,460	------	468	318	214	93	77	41	304
30	100	125	1,390	1,240	------	450	296	230	88	76	44	406
31	130	------	1,110	1,010	------	560	------	203	------	70	92	------
TOTAL	1,716	2,132	27,774	19,080	13,371	15,691	19,770	10,850	3,773	2,797	1,445	3,412
MEAN	55.4	71.1	896	616	478	506	659	350	126	90.2	46.6	114
MAX	130	148	5,050	1,460	950	1,180	978	945	262	203	92	406
MIN	47	50	72	266	252	256	296	203	81	58	34	60
CFSM	.27	.35	4.41	3.03	2.35	2.49	3.25	1.72	.62	.44	.23	.56
IN.	.31	.39	5.09	3.50	2.45	2.88	3.62	1.99	.69	.51	.26	.63

CAL YR 1973 TOTAL 160,506 MEAN 440 MAX 5,050 MIN 44 CFSM 2.17 IN 29.41
WTR YR 1974 TOTAL 121,817 MEAN 334 MAX 5,050 MIN 34 CFSM 1.65 IN 22.32

01200500 Housatonic River at Gaylordsville, Conn.

LOCATION.--Lat 41°39'11", long 73°29'20", Litchfield County, on left bank 0.4 mi (0.6 km) downstream from hydroelectric plant of Connecticut Light and Power Co., 0.5 mi (0.8 km) upstream from bridge on U.S. Highway 7 at Gaylordsville, 1.5 mi (2.4 km) downstream from Tenmile River, and at mile 50.6 (81.4 km).

DRAINAGE AREA.--993 mi² (2,572 km²).

PERIOD OF RECORD.--October 1900 to December 1904 (fragmentary), January 1905 to December 1908 (gage heights only), January 1909 to December 1912 (fragmentary), January 1913 to October 1914 (gage heights only), November 1914 (fragmentary), July 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 236.78 ft (72.171 m) above mean sea level. October 1900 to November 1914, nonrecording gage on covered bridge 0.6 mi (1.0 km) downstream at different datum.

AVERAGE DISCHARGE.--34 years, (1940-74), 1,632 ft³/s (46.22 m³/s) 22.36 in/yr (568 mm/yr).

EXTREMES.--Current year: Maximum discharge, 19,000 ft³/s (538 m³/s) Dec. 21, gage height, 11.76 ft (3.584 m); minimum, 104 ft³/s (2.95 m³/s) Oct. 14.

Period of record: Maximum discharge, 51,800 ft³/s (1,470 m³/s) Aug. 19, 1955, gage height, 18.58 ft (5.663 m); minimum observed, about 30 ft³/s (0.85 m³/s) Oct. 28, 1914, gage height, 2.18 ft (0.664 m), site and datum then in use; minimum daily since July 1940, about 60 ft³/s (1.70 m³/s) Aug. 31, 1944, Sept. 20, 1949.

Flood in May 1854 reached a stage of 21 ft 3 in (6.477 m), former site and datum; reported by observer in 1902. Flood of Sept. 22, 1938, reached a stage of 14.5 ft (4.42 m), from floodmarks, at present site, discharge, 37,000 ft³/s (1,050 m³/s) by computation of peak flow over dam 2.5 mi (4.0 km) upstream adjusted for flow from intervening area.

PEAK DISCHARGE.--(BASE, 6,000 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-21	1800	11.76	19,000
12-28	1100	8.75	10,200
01-29	1300	6.90	6,190

REMARKS.--Records good. Ordinary flow regulated by power plant upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	606	1,860	1,670	5,050	3,990	2,570	2,990	2,100	1,900	837	332	1,110
2	561	1,660	1,380	4,870	3,420	2,560	3,000	2,570	2,700	833	570	1,040
3	378	1,380	1,150	4,070	2,870	2,440	3,190	2,450	2,500	999	429	1,060
4	693	1,160	1,020	3,600	2,660	2,220	3,270	2,270	2,110	1,260	252	1,750
5	618	959	1,120	3,290	2,360	2,430	3,730	2,000	1,750	1,620	618	1,910
6	336	898	2,210	2,970	2,230	2,460	4,460	1,950	1,470	2,010	614	1,540
7	385	811	2,340	2,700	2,370	2,510	4,720	1,830	1,260	2,340	562	1,430
8	476	843	2,180	2,440	2,320	2,410	4,290	1,920	1,190	1,050	440	1,410
9	507	843	2,120	1,900	2,130	2,320	4,400	1,800	1,040	1,440	471	1,190
10	638	670	3,600	1,910	2,050	2,140	4,070	1,960	1,030	1,010	364	961
11	635	659	3,510	2,180	1,950	2,110	3,730	2,240	966	900	319	817
12	656	603	2,930	2,510	1,840	1,910	3,950	2,540	963	795	205	719
13	699	651	2,450	2,890	1,700	1,700	4,000	4,580	866	740	661	707
14	193	577	2,740	1,970	1,920	1,530	4,160	5,330	867	749	591	670
15	331	665	2,960	1,920	1,740	1,520	4,710	4,900	893	560	113	661
16	686	866	2,810	2,060	1,590	1,690	5,150	4,200	840	830	187	1,270
17	343	898	2,310	2,010	1,510	3,750	4,960	3,600	971	813	481	936
18	612	688	1,760	1,740	1,540	4,130	4,420	3,010	909	763	520	799
19	629	705	2,010	1,890	1,440	3,590	3,850	2,800	1,040	572	661	792
20	407	661	2,120	1,920	2,030	3,110	3,470	2,500	993	696	307	767
21	605	563	9,320	1,970	2,090	3,410	3,030	2,200	860	510	409	776
22	655	605	14,800	2,810	2,550	5,200	2,700	2,000	1,170	549	429	1,340
23	629	699	13,000	2,960	5,030	4,600	2,600	1,900	1,170	650	326	1,370
24	666	632	10,400	3,100	5,170	4,210	2,490	2,300	1,120	444	299	1,360
25	633	603	7,370	2,900	4,500	3,970	2,200	2,500	912	523	449	1,070
26	630	808	6,660	2,720	3,620	3,610	2,290	2,700	965	319	560	919
27	512	970	8,500	3,570	2,800	3,250	2,090	2,700	937	570	486	901
28	376	1,040	9,420	5,670	2,600	2,980	1,800	2,290	944	566	467	890
29	550	1,560	9,950	6,120	------	2,650	1,840	2,000	868	551	476	1,950
30	426	1,760	4,800	5,590	------	2,520	1,760	1,900	706	486	563	2,360
31	1,670	------	7,130	4,750	------	2,610	------	1,900	------	629	1,010	------
TOTAL	15,135	26,561	149,900	95,726	72,200	88,130	104,100	80,610	36,058	27,470	13,655	34,671
MEAN	488	885	4,835	3,088	2,579	2,843	3,470	2,600	1,202	886	440	1,156
MAX	1,670	1,760	14,800	6,120	5,170	5,200	5,150	5,330	2,700	2,340	1,010	2,360
MIN	193	577	1,020	1,740	1,440	1,520	1,760	1,800	706	319	113	670
CFSM	.49	.89	4.87	3.11	2.60	2.86	3.49	2.62	1.21	.89	.44	1.16
IN.	.57	.99	5.62	3.59	2.70	3.30	3.90	3.02	1.35	1.03	.51	1.30

CAL YR 1973 TOTAL 859,171 MEAN 2,354 MAX 14,800 MIN 193 CFSM 2.37 IN 32.19
WTR YR 1974 TOTAL 744,190 MEAN 2,039 MAX 14,800 MIN 113 CFSM 2.05 IN 27.88

01201930 Marshepaug River near Milton, Conn.

LOCATION.--Lat 41°47'22", long 73°15'30", Litchfield County, on left bank downstream from bridge on Maple Street, 1.5 mi (2.4 km) northeast of Milton.

DRAINAGE AREA.--9.24 mi^2 (23.93 km^2).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,083.95 ft (330.388 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 20.8 ft^3/s (0.589 m^3/s), 30.58 in/yr (777 mm/yr).

EXTREMES.--Current year: Maximum discharge, 474 ft^3/s (13.4 m^3/s) Dec. 22, gage height, 4.90 ft (1.494 m); minimum, 2.2 ft^3/s (0.062 m^3/s) Aug. 12.

Period of record: Maximum discharge, 474 ft^3/s (13.4 m^3/s) Dec. 22, 1973, gage height, 4.90 ft (1.494 m); minimum, 0.5 ft^3/s (0.014 m^3/s) May 13, 1970, July 21, 1971.

REMARKS.--Records good. Flow regulated by a real estate lake upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	18	17	46	45	20	29	21	13	5.0	3.2	5.9
2	3.6	13	15	38	38	19	33	15	11	4.8	2.9	6.1
3	4.0	9.8	16	33	33	18	38	18	10	7.7	3.0	13
4	4.2	7.9	13	32	28	19	41	19	9.2	7.3	3.0	26
5	5.8	5.9	23	27	24	19	52	15	8.3	6.1	2.9	13
6	4.9	5.9	43	25	21	19	61	16	7.7	20	2.9	8.2
7	3.8	5.1	41	23	21	18	51	17	6.0	10	2.7	10
8	3.8	5.1	43	21	19	18	43	15	5.6	7.2	2.7	7.9
9	3.7	5.7	57	22	17	18	50	13	5.7	6.0	2.9	6.5
10	4.7	5.9	77	23	16	20	40	23	5.5	5.2	3.0	6.1
11	3.7	4.8	72	26	15	15	35	22	5.2	4.9	2.5	5.6
12	3.5	4.3	53	24	14	14	34	20	4.6	3.6	2.5	5.1
13	3.5	4.4	49	22	13	13	35	47	4.7	2.8	2.5	5.1
14	4.1	4.9	53	20	13	10	37	46	4.0	2.8	2.5	7.5
15	3.5	5.1	52	19	12	8.6	53	39	3.7	4.6	2.5	4.8
16	3.7	7.0	46	18	11	25	43	33	4.2	5.9	2.5	4.6
17	3.3	6.7	55	17	10	49	36	28	9.1	4.8	3.0	3.7
18	3.3	5.9	62	16	9.8	66	31	23	7.7	3.5	2.9	4.0
19	3.6	6.5	32	15	12	60	29	18	5.5	3.0	2.8	3.7
20	3.1	4.3	28	14	21	36	25	15	4.7	4.6	2.8	4.0
21	3.6	4.1	276	13	16	56	22	12	5.1	3.1	2.8	7.5
22	2.9	9.2	342	14	33	68	22	12	5.6	2.6	2.8	9.0
23	2.9	7.9	204	21	46	57	26	16	5.5	2.6	3.3	6.5
24	2.8	8.2	105	28	42	52	22	16	5.5	2.9	3.1	4.3
25	3.6	13	60	29	36	41	18	13	7.0	3.5	3.1	3.7
26	3.6	12	58	28	29	36	16	11	4.9	3.2	2.9	3.7
27	3.3	12	49	55	26	28	15	11	4.5	3.0	3.0	3.5
28	2.9	19	128	72	25	26	13	9.2	4.7	3.7	3.1	5.7
29	5.0	21	100	67	------	21	13	10	4.2	4.2	3.3	66
30	36	18	75	73	------	27	14	11	4.0	3.7	7.9	40
31	20	------	57	58	------	30	------	9.1	------	3.5	7.5	------
TOTAL	163.6	263.6	2,351	959	639.8	876.4	973	593.3	185.9	158.2	98.5	308.3
MEAN	5.28	8.79	75.8	30.9	22.9	28.3	32.4	19.1	6.20	5.10	3.18	10.3
MAX	36	21	342	73	46	68	61	47	13	20	7.9	66
MIN	2.8	4.3	13	13	9.8	8.6	13	9.1	3.7	2.6	2.5	3.5
CFSM	.57	.95	8.20	3.34	2.48	3.06	3.51	2.07	.67	.55	.34	1.11
IN.	.66	1.06	9.47	3.86	2.58	3.53	3.92	2.39	.75	.64	.40	1.24

CAL YR 1973 TOTAL 10,182.2 MEAN 27.9 MAX 342 MIN 1.5 CFSM 3.02 IN 40.99
WTR YR 1974 TOTAL 7,570.6 MEAN 20.7 MAX 342 MIN 2.5 CFSM 2.24 IN 30.48

01203600 Nonewaug River at Minortown, Conn.

LOCATION.--Lat 41°34'32", long 73°10'43", Litchfield County, on right bank 1,000 ft (305 m) downstream from bridge by U.S. Highways 6 and 202 at Minortown, and 2.5 mi (4.0 km) northeast of Woodbury.

DRAINAGE AREA.--17.7 mi² (45.8 km²).

PERIOD OF RECORD.--September 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 354.69 ft (108.110 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage and diversion from October 1962 to September 1969).--12 years, 27.7 ft³/s (0.784 m³/s), 21.25 in/yr (540 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,300 ft³/s (65.1 m³/s) Sept. 29, gage height, 5.79 ft (1.765 m); minimum, 0.36 ft³/s (0.010 m³/s) Aug. 15, gage height, 0.41 ft (0.125 m).

Period of record: Maximum discharge, 2,300 ft³/s (65.1 m³/s) Sept. 29, 1974, gage height, 5.79 ft (1.765 m), from rating curve extended above 780 ft³/s; minimum, 0.23 ft³/s (0.065 m³/s) Oct. 10, 1970, gage height, 0.34 ft (0.104 m).

Flood of Aug. 19, 1955, reached a stage of 13.2 ft (4.02 m) from floodmarks, discharge, about 10,000 ft³/s (283 m³/s) revised, estimated from a comparison of unit runoff of nearby streams.

PEAK DISCHARGE.--(BASE, 500 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-09	1630	3.63	919
12-21	1400	5.48	2,090
03-21	1530	3.64	916
09-29	0230	5.79	2,300

REMARKS.--Records good. Flow regulated by Lockwood Reservoir. Diversion for municipal supply of town of Watertown.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	22	13	63	55	28	57	27	28	8.8	5.6	5.0
2	2.7	16	11	52	48	25	47	18	18	5.0	4.5	6.2
3	3.0	12	11	46	45	24	39	30	16	28	7.9	36
4	3.0	10	11	46	43	27	67	27	12	11	9.2	85
5	2.7	8.4	46	52	42	26	67	20	10	9.2	9.6	21
6	2.6	7.8	86	40	40	22	58	18	8.8	41	5.0	13
7	2.4	7.3	31	37	37	19	41	20	7.6	12	4.3	32
8	2.5	7.1	23	35	37	19	41	17	7.2	8.3	3.8	18
9	2.5	7.0	109	40	35	22	117	15	6.8	6.2	3.4	11
10	2.6	6.3	47	120	56	30	64	56	5.6	5.0	3.2	9.6
11	2.6	6.8	47	52	27	24	46	32	4.8	4.3	3.0	7.6
12	2.7	6.2	36	45	36	21	48	74	4.3	3.8	2.9	6.5
13	2.8	7.8	31	40	27	18	50	81	4.8	3.4	2.5	7.6
14	3.2	9.1	96	35	30	18	51	42	4.1	3.4	2.4	13
15	3.4	7.3	46	33	25	16	172	33	3.8	7.6	1.4	6.9
16	3.4	7.8	36	31	33	68	63	27	4.3	11	1.9	5.9
17	3.2	7.3	96	30	21	87	46	23	14	4.8	5.6	5.2
18	3.4	6.4	50	42	22	43	48	19	6.8	4.3	9.2	5.0
19	3.9	6.1	49	131	37	36	44	16	5.3	5.0	3.6	4.7
20	3.9	5.7	38	56	65	31	38	14	4.5	4.5	3.0	5.2
21	4.1	5.6	1,210	83	36	207	34	13	7.2	4.1	2.7	19
22	3.9	6.9	279	132	69	101	31	12	8.8	3.8	2.4	21
23	3.8	6.8	120	104	58	82	31	20	7.2	3.6	2.9	8.9
24	3.9	7.5	90	94	35	52	29	20	7.6	3.2	3.0	7.3
25	3.8	24	68	71	38	48	27	28	6.5	12	2.5	6.5
26	3.8	14	116	64	27	37	23	18	6.5	5.3	2.2	6.4
27	3.6	14	170	257	27	33	20	15	6.2	5.9	2.4	5.7
28	3.6	33	109	161	22	30	19	13	5.9	5.3	3.2	32
29	7.5	25	88	123	------	26	18	16	5.3	6.8	7.9	490
30	113	17	72	83	------	32	18	15	5.0	23	17	92
31	25	------	59	69	------	40	------	12	------	9.6	9.6	------
TOTAL	235.2	327.6	3,412	2,335	1,063	1,310	1,444	781	240.9	269.2	147.8	993.2
MEAN	7.59	10.9	110	75.3	38.0	42.3	48.1	25.2	8.03	8.68	4.77	33.1
MAX	113	33	1,210	257	69	207	172	81	28	41	17	490
MIN	2.4	5.6	11	30	21	16	18	12	3.8	3.2	1.4	4.7
CFSM	.43	.62	6.21	4.25	2.15	2.39	2.72	1.42	.45	.49	.27	1.87
IN.	.49	.69	7.17	4.91	2.23	2.75	3.03	1.64	.51	.57	.31	2.09

CAL YR 1973 TOTAL 15,070.9 MEAN 41.3 MAX 1,210 MIN 1.8 CFSM 2.33 IN 31.69
WTR YR 1974 TOTAL 12,558.7 MEAN 34.4 MAX 1,210 MIN 1.4 CFSM 1.94 IN 26.39

01204000 Pomperaug River at Southbury, Conn.

LOCATION.--Lat 41°28'50", long 73°13'30", New Haven County, on right bank 200 ft (60 m) upstream from bridge on Poverty Road, 800 ft (250 m) downstream from Bullet Hill Brook, 0.6 mi (1.0 km) west of Southbury, and 5.8 mi (9.3 km) upstream from mouth.

DRAINAGE AREA.--75.0 mi² (194.2 km²).

PERIOD OF RECORD.--June 1932 to current year.

GAGE.--Water-stage recorder. Datum of gage is 165.60 ft (50.475 m) above mean sea level; levels by Corps of Engineers.

AVERAGE DISCHARGE (adjusted for storage and diversion from October 1960 to September 1969).--42 years, 124 ft³/s (3.512 m³/s), 22.46 in/yr (570 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,800 ft³/s (108 m³/s) Dec. 21, gage height, 11.06 ft (3.371 m); minimum, 8.4 ft³/s (0.24 m³/s) Aug. 16, 17, gage height, 2.36 ft (0.719 m).

Period of record: Maximum discharge, 29,400 ft³/s (833 m³/s) Aug. 19, 1955, gage height, 21.8 ft (6.64 m), from floodmarks, from rating curve extended above 1,200 ft³/s (34.0 m³/s) by computation of peak flow over dam at gage height 16.0 ft (4.88 m) and by slope-area measurement of peak flow; minimum, 2.5 ft³/s (0.071 m³/s) Aug. 30, 31, 1966; minimum gage height, 2.31 ft (0.704 m) Aug. 10, 1957.

PEAK DISCHARGE.--(BASE, 1,400 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-21	1400	11.06	3,800
03-21	2000	6.93	1,440
09-29	0700	8.09	2,020

REMARKS.--Records excellent. Flow regulated by Lockwood Reservoir and occasionally at low flow by mill upstream. Diversion for municipal supply of town of Watertown. Records of water quality for the current year are published in Part 2 of this report. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	87	58	252	246	137	272	144	129	39	28	39
2	19	70	50	231	222	131	230	116	114	31	23	43
3	18	56	46	206	209	124	205	144	89	75	32	108
4	18	45	45	203	195	131	322	162	76	74	40	402
5	17	40	83	179	161	129	297	124	66	48	44	130
6	18	36	278	172	140	117	292	113	59	160	28	85
7	19	33	125	161	130	111	230	125	53	71	23	148
8	17	32	97	144	125	106	212	109	50	49	20	109
9	16	31	405	122	120	110	411	100	49	39	18	76
10	16	29	377	149	115	153	300	201	44	32	16	62
11	15	27	203	186	115	125	243	168	38	26	14	53
12	15	28	161	175	118	113	219	177	35	23	13	46
13	16	27	135	137	121	96	260	417	36	21	12	44
14	16	29	280	125	136	90	257	221	32	19	12	60
15	15	29	197	115	115	90	551	179	31	19	11	44
16	15	28	154	110	98	165	308	155	30	54	10	36
17	15	30	339	105	104	380	253	137	58	29	18	32
18	16	27	221	100	96	195	228	122	47	23	41	30
19	16	27	155	220	114	169	237	108	34	23	21	28
20	17	26	152	185	280	152	214	97	30	22	16	28
21	17	25	2.480	253	168	543	191	88	43	18	14	36
22	17	27	1.270	448	241	450	179	84	53	16	12	95
23	16	28	607	345	257	302	177	92	40	15	13	46
24	16	29	430	335	170	264	166	116	43	16	14	35
25	16	76	328	265	155	223	157	102	37	40	12	32
26	16	61	390	240	142	208	143	89	40	28	11	32
27	16	53	619	689	126	191	130	85	36	25	11	29
28	15	118	420	507	124	175	124	79	34	27	35	58
29	23	105	323	497	------	162	119	88	32	28	71	1.090
30	318	71	293	340	------	175	113	95	30	57	72	369
31	106	------	250	290	------	300	------	79	------	42	71	------
TOTAL	909	1.328	10.962	7.486	4.343	5.817	7.040	4.116	1.488	1.189	776	3.425
MEAN	29.3	44.3	354	241	155	188	235	133	49.6	38.4	25.0	114
MAX	318	118	2.480	689	280	543	551	417	129	160	72	1.090
MIN	15	25	45	100	96	90	113	79	30	15	10	28
CFSM	.39	.59	4.72	3.21	2.07	2.51	3.13	1.77	.66	.51	.33	1.52
IN.	.45	.66	5.44	3.71	2.15	2.89	3.49	2.04	.74	.59	.38	1.70

CAL YR 1973 TOTAL 61.691 MEAN 169 MAX 2.480 MIN 15 CFSM 2.25 IN 30.60
WTR YR 1974 TOTAL 48.879 MEAN 134 MAX 2.480 MIN 10 CFSM 1.79 IN 24.24

01204800 Copper Mill Brook near Monroe, Conn.

LOCATION.--Lat 41°21'46", long 73°13'08", Fairfield County, on right bank just upstream from twin culverts on Hammertown Road, 700 ft (210 m) upstream from mouth, 1.2 mi (1.9 km) west of State Highway 111, 2.2 mi (3.5 km) northwest of Monroe, and 2.2 mi (3.5 km) east of Botsford.

DRAINAGE AREA.--2.45 mi² (6.35 km²).

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 331.05 ft (100.904 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 4.73 ft³/s (0.134 m³/s), 26.22 in/yr (666 mm/yr).

EXTREMES.--Current year: Maximum discharge, 189 ft³/s (5.35 m³/s) Dec. 21, gage height, 5.46 ft (1.664 m); minimum, 0.05 ft³/s (0.001 m³/s), regulated, July 24, Aug. 16, gage height, 0.30 ft (0.091 m).

Period of record: Maximum discharge, 255 ft³/s (7.22 m³/s) Feb. 2, 1973, gage height, 7.10 ft (2.164 m), from rating curve extended above 100 ft³/s (2.83 m³/s) on basis of computation of peak flow through culvert; minimum, 0.04 ft³/s (0.001 m³/s) Sept. 9-11, 1964; minimum gage height, 0.33 ft (0.101 m) Sept. 10, 11, 1964, Aug. 20, 22, 23, 1970.

PEAK DISCHARGE.--(BASE, 80 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-21	0830	5.46	189
03-21	1430	4.67	158
09-03	2230	3.05	84
09-29	0330	3.51	106

REMARKS.--Records good. Infrequent regulation at low flow. See revisions of peak discharge for water years 1959-65 in WSP 2101.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.72	4.0	1.6	10	8.2	6.6	11	3.6	6.1	.80	.20	.94
2	.74	2.7	1.3	8.6	7.1	5.4	8.0	2.9	3.0	.50	.17	1.6
3	.81	1.7	1.3	7.5	7.9	5.3	6.8	6.1	2.2	1.9	2.8	14
4	.75	1.4	1.4	7.9	6.9	5.4	18	4.4	1.8	.87	8.7	28
5	.86	1.2	4.7	6.9	6.3	4.8	12	3.2	1.5	.55	5.9	5.0
6	.68	1.1	13	6.6	5.6	4.2	9.3	2.8	1.2	.55	1.2	2.9
7	.64	1.0	4.1	6.4	6.1	4.1	7.2	3.6	1.0	.50	.66	15
8	.59	1.0	2.9	5.6	5.6	4.0	6.9	2.8	1.1	.31	.50	5.6
9	.62	.94	25	4.7	5.4	5.4	23	2.7	1.0	.28	.39	3.3
10	.65	.87	14	6.3	4.8	7.5	10	8.2	.80	.25	.32	2.5
11	.65	.80	6.6	8.0	4.8	4.7	7.7	4.7	.66	.22	.25	1.9
12	.65	.87	4.8	8.0	4.7	4.1	6.9	8.9	.66	.20	.22	1.7
13	.59	.87	4.0	5.9	5.3	3.5	10	12	.87	.17	.17	1.5
14	.65	.87	22	6.1	6.1	3.3	10	5.4	.60	.17	.15	1.8
15	.52	.80	8.2	6.1	4.8	3.3	27	4.2	.55	.20	.12	1.3
16	.50	.94	5.9	5.6	4.1	18	9.8	3.3	.87	.20	.11	1.1
17	.48	.87	18	5.1	4.4	19	7.9	2.9	2.9	.17	4.4	1.0
18	.59	.80	8.9	4.7	4.0	7.5	7.1	2.7	.94	.15	11	1.0
19	.61	.80	5.6	9.8	15	6.3	10	2.2	.60	.28	1.8	1.0
20	.60	.73	7.9	7.7	28	5.1	7.5	1.9	.50	.17	.87	1.0
21	.66	.73	121	21	10	51	6.4	2.3	2.9	.15	.55	5.1
22	.76	.94	29	34	22	21	5.9	2.7	2.3	.14	.50	7.4
23	.65	.87	15	19	15	11	6.1	3.0	1.3	.12	.80	2.2
24	.65	1.2	11	16	8.0	8.9	5.4	4.0	1.2	.14	.66	1.5
25	.65	3.6	9.3	11	7.5	7.2	5.0	4.0	.87	1.1	.44	1.5
26	.67	2.8	16	10	6.9	6.9	4.5	2.4	.80	.44	.35	1.5
27	.64	1.9	27	29	6.3	6.1	4.1	2.5	.80	.35	.35	1.2
28	.61	6.1	13	16	6.1	5.7	3.9	2.3	.73	.35	.60	2.9
29	3.0	3.5	10	17	------	5.0	3.6	3.9	1.0	.35	4.1	42
30	22	2.8	11	11	------	7.7	3.6	2.9	.66	.31	5.7	10
31	4.4	------	8.9	9.6	------	20	------	2.2	------	.28	1.8	------
TOTAL	47.59	48.70	432.4	331.1	226.9	278.0	264.6	120.7	41.41	12.17	55.78	167.44
MEAN	1.54	1.62	13.9	10.7	8.10	8.97	8.82	3.89	1.38	.39	1.80	5.58
MAX	22	6.1	121	34	28	51	27	12	6.1	1.9	11	42
MIN	.48	.73	1.3	4.7	4.0	3.3	3.6	1.9	.50	.12	.11	.94
CFSM	.63	.66	5.67	4.37	3.31	3.66	3.60	1.59	.56	.16	.73	2.28
IN.	.72	.74	6.57	5.03	3.45	4.22	4.02	1.83	.63	.18	.85	2.54

CAL YR 1973 TOTAL 2,842.53 MEAN 7.79 MAX 121 MIN .35 CFSM 3.18 IN 43.16
WTR YR 1974 TOTAL 2,024.79 MEAN 5.55 MAX 121 MIN .11 CFSM 2.27 IN 30.77

01205500 Housatonic River at Stevenson, Conn.

LOCATION.--Lat 41°23'02", long 73°10'05", New Haven County, on left bank, 0.2 mi (0.3 km) downstream from dam of Connecticut Light and Power Company at Stevenson, Fairfield County, 0.2 mi (0.3 km) upstream from Eightmile Brook, and at mile 19.2 (30.9 km).

DRAINAGE AREA.--1,541 mi^2 (3,991 km^2).

PERIOD OF RECORD.--August 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 24.98 ft (7.614 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE (adjusted for storage and diversion).--46 years, 2,548 ft^3/s (72.16 m^3/s) 22.45 in/yr (684 mm/yr).

EXTREMES.--Current year: Maximum discharge, 44,200 ft^3/s (1,250 m^3/s) Dec. 21, gage height, 18.73 ft (5.709 m); minimum, 56 ft^3/s (1.59 m^3/s) Oct. 27, 28, Jan. 14, 17, gage height, 0.70 ft (0.213 m); minimum daily, 63 ft^3/s (1.78 m^3/s) Oct. 27.

Period of record: Maximum discharge, 75,800 ft^3/s (2,150 m^3/s) Oct. 16, 1955, gage height, 24.50 ft (7.467 m), from rating curve extended above 35,000 ft^3/s (991 m^3/s) on basis of computation of peak flow at Stevenson and Derby Dams and slope-area measurement at gage heights 21.5 and 23.5 ft (6.55 and 7.16 m); practically no flow at times, result of regulation.

REMARKS.--Records excellent. Ordinary flow completely regulated by Stevenson Hydroelectric Plant. Flow regulated by Lake Candlewood, Lake Lillinonah, Lake Zoar, Cairns and Shepaug Reservoirs, (see p.101), and by diversion out of basin at Shepaug Reservoir. Records of water quality for the current year are published in Part 2 of this report. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	969	3,040	1,140	6,880	6,260	3,290	4,890	3,400	1,400	954	830	198
2	944	1,600	556	6,440	6,120	3,510	5,350	3,000	798	1,300	768	714
3	779	1,340	2,100	6,430	5,610	3,230	5,390	3,750	3,530	2,100	236	4,450
4	627	67	1,950	4,680	4,140	3,940	5,130	2,300	1,910	555	231	6,470
5	888	1,540	1,920	4,100	4,130	3,420	5,910	519	2,340	3,260	1,320	4,090
6	218	825	3,730	4,810	3,780	3,250	6,110	2,940	1,900	3,190	604	3,170
7	70	827	3,220	4,720	3,720	4,090	5,710	4,000	1,760	2,350	326	2,670
8	229	833	2,760	4,730	4,180	4,610	5,480	3,550	2,850	3,560	1,390	1,400
9	623	1,060	4,360	4,160	3,170	2,370	8,620	3,610	691	3,120	157	2,960
10	666	303	6,430	4,490	1,710	1,680	7,340	4,450	2,650	2,120	233	2,540
11	1,180	67	6,280	6,030	3,800	3,160	5,780	3,100	1,780	1,140	196	1,780
12	1,320	732	4,800	3,660	3,520	3,450	5,420	2,570	1,250	313	239	1,710
13	693	786	2,780	983	2,650	2,260	5,580	7,480	1,010	254	240	1,750
14	1,020	836	3,880	3,500	3,010	2,160	5,990	6,540	931	222	417	441
15	1,070	856	5,950	3,520	2,590	2,950	6,420	6,320	335	1,940	81	1,010
16	792	2,400	3,530	3,220	2,580	2,370	7,370	6,720	481	1,170	174	1,880
17	834	735	4,540	3,470	1,630	6,020	7,030	6,000	2,510	185	201	1,830
18	692	91	2,120	3,150	2,040	5,360	7,210	1,250	1,950	161	1,090	339
19	665	1,290	2,070	2,810	4,310	4,420	6,130	255	1,650	238	851	789
20	851	1,170	2,600	3,070	3,860	3,490	6,040	2,660	1,320	173	837	584
21	1,910	1,330	22,000	4,700	3,600	6,610	4,300	3,580	1,110	219	686	1,420
22	141	341	26,200	5,240	4,640	9,640	4,500	3,450	357	73	699	1,590
23	140	328	17,000	5,740	6,070	6,430	5,300	3,300	254	1,200	1,710	1,910
24	479	972	12,200	5,730	6,320	6,040	5,600	3,720	2,410	968	191	1,770
25	371	860	9,680	4,770	6,100	5,140	3,700	2,590	944	1,030	233	2,230
26	93	1,740	11,000	5,290	5,200	3,300	4,230	1,540	734	871	380	888
27	63	2,480	13,200	5,690	4,110	2,000	586	2,210	1,470	217	690	1,280
28	822	1,670	13,700	9,170	2,890	4,540	147	3,250	1,660	215	559	999
29	1,310	1,580	13,400	9,310	------	5,930	2,940	3,380	212	898	2,360	5,470
30	2,110	1,260	11,800	7,240	------	5,790	3,060	2,780	205	776	718	6,440
31	2,690	------	9,830	7,240	------	5,720	------	3,570	------	1,060	728	------
TOTAL	25,277	32,997	226,726	155,063	111,740	130,390	157,113	107,764	42,602	35,832	19,375	64,972
MEAN	815	1,100	7,314	5,003	3,991	4,206	5,237	3,477	1,420	1,156	625	2,166
MAX	2,690	3,040	26,200	9,310	6,320	9,640	8,620	7,480	3,530	3,560	2,360	6,470
MIN	63	67	556	983	1,630	1,680	147	255	205	73	81	198
(†)	-166	+43	+273	-84	-36	+112	+101	+92	-315	+297	-34	+150
MEAN‡	649	1,143	7,587	4,919	3,955	4,318	5,338	3,569	1,105	1,453	591	2,316
CFSM‡	0.42	0.74	4.92	3.19	2.57	2.80	3.46	2.32	0.72	0.94	0.38	1.50
IN‡	0.48	0.83	5.67	3.68	2.68	3.23	3.86	2.68	0.80	1.08	0.44	1.67

CAL YR 1973 TOTAL 1,324,509 MEAN 3,629 MAX 31,000 MIN 63 MEAN‡ 3,657 CFSM‡ 2.37 IN‡ 32.19
WTR YR 1974 TOTAL 1,109,891 MEAN 3,041 MAX 26,200 MIN 63 MEAN‡ 3,078 CFSM‡ 2.00 IN‡ 27.10

†Change in contents in Candlewood, Lillinonah, and Zoar Lakes, Cairns and Shepaug Reservoirs, and diversion out of basin at Shepaug Reservoir, equivalent in cubic feet per second; furnished by Connecticut Light and Power Company, city of Waterbury, and city of Danbury.

‡Adjusted for diversion and change in contents.

01205600 West Branch Naugatuck River at Torrington, Conn.

LOCATION.--Lat 41°48'03", long 73°07'26", Litchfield County, on right bank just downstream from bridge on Prospect Street in Torrington, 0.5 mi (0.8 km) upstream from confluence with East Branch, and 3 mi (5 km) downstream from Stillwater Pond.

DRAINAGE AREA.--33.7 mi^2 (87.3 km^2).

PERIOD OF RECORD.--August 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 543.54 ft (165.671 m) above mean sea level. See WSP 1721 for history of change prior to May 24, 1960. May 24, 1960, to July 2, 1965, water-stage recorder, and July 3-30, 1965, nonrecording gage 80 ft (24 m) upstream on right bank at present datum. July 31 to Sept. 27, 1965, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--18 years, 53.7 ft^3/s (1.521 m^3/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 4,630 ft^3/s (131 m^3/s) Dec. 21, gage height, 5.98 ft (1.823 m); minimum, 2.9 ft^3/s (0.082 m^3/s) Oct. 16-19; minimum gage height, 1.88 ft (0.573 m) Oct. 16-19, 28, 29.

Period of record: Maximum discharge, 4,630 ft^3/s (131 m^3/s) Dec. 21, 1973, maximum gage height, 7.46 ft (2.274 m) Sept. 12, 1960; minimum daily, 0.3 ft^3/s (0.008 m^3/s) Aug. 21, Sept. 1, 1968.

Maximum discharge known, 11,900 ft^3/s (337 m^3/s) Aug. 19, 1955, by computation of peak flow over dam 3 mi (5 km) upstream; drainage area, 24.4 mi^2, (63.1 km), revised.

REMARKS.--Records good. City of Torrington diverts an average of about 4 mgd (0.18 m^3/s) for municipal supply from North Pond, Whist Pond, and Reuben Hart Reservoir. Occasional regulation at low flow by Stillwater Pond. High flow regulated by Hall Meadow Brook Detention Reservoir (see station 01205560).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	67	38	171	156	65	163	111	42	22	8.1	18
2	3.5	50	29	130	108	70	171	79	45	18	7.2	16
3	3.5	34	30	95	90	62	160	65	35	28	6.3	34
4	3.5	25	28	89	80	63	167	83	27	28	7.8	70
5	3.9	20	81	73	70	81	242	60	22	24	7.5	55
6	3.1	19	208	72	60	83	252	53	19	118	6.3	29
7	3.1	20	95	68	55	72	175	68	17	56	5.8	36
8	3.3	20	55	55	53	67	122	58	16	29	5.2	35
9	3.3	17	244	50	49	62	156	48	16	19	5.2	24
10	3.3	16	236	50	46	62	126	101	14	15	5.2	18
11	3.3	12	139	70	42	59	118	136	11	12	4.9	14
12	3.3	13	81	70	41	54	167	156	12	8.4	4.9	12
13	3.3	13	58	55	37	44	175	350	14	8.1	4.6	12
14	3.1	13	312	50	42	35	160	195	14	7.8	4.3	14
15	3.1	13	196	49	39	40	274	122	12	16	4.6	10
16	3.1	18	122	47	34	136	160	79	11	15	4.6	9.8
17	2.9	16	102	45	34	413	108	62	37	13	7.5	9.5
18	2.9	15	76	75	30	212	85	54	32	9.1	11	9.8
19	3.0	16	64	79	38	153	85	44	19	11	7.2	11
20	3.6	13	49	63	133	95	89	38	14	15	6.9	24
21	11	13	1.920	79	91	366	77	34	14	11	6.3	33
22	9.6	19	505	182	222	350	70	30	18	10	6.3	31
23	5.4	19	431	45	298	227	67	45	24	8.4	6.6	21
24	4.1	22	383	149	178	186	63	55	18	9.1	9.2	14
25	3.4	40	286	108	133	130	58	48	17	14	9.2	13
26	3.3	43	320	87	77	91	53	42	20	9.8	7.8	11
27	5.8	39	458	200	59	81	45	36	26	14	7.8	11
28	3.2	65	471	355	59	72	41	33	20	16	8.8	27
29	13	86	355	377	------	62	41	35	18	11	11	146
30	302	53	274	263	------	60	46	39	17	9.8	27	95
31	127	------	212	208	------	122	------	34	------	9.1	28	------
TOTAL	553.4	829	7.858	3.509	2.354	3.675	3.716	2.393	621	594.6	253.1	863.1
MEAN	17.9	27.6	253	113	84.1	119	124	77.2	20.7	19.2	8.16	28.8
MAX	302	86	1.920	377	298	413	274	350	45	118	28	146
MIN	2.9	12	28	45	30	35	41	30	11	7.8	4.3	9.5

CAL YR 1973 TOTAL 31.277.2 MEAN 85.7 MAX 1.920 MIN 2.7
WTR YR 1974 TOTAL 27.219.2 MEAN 74.6 MAX 1.920 MIN 2.9

01205700 East Branch Naugatuck River at Torrington, Conn.

LOCATION.--41°48'12", long 73°07'06", Litchfield County, on upstream side of Wall Street bridge in Torrington, 0.3 mi (0.5 km) downstream from Troy Brook, and 0.6 mi (1.0 km) upstream from confluence with West Branch.

DRAINAGE AREA.--13.7 mi² (35.5 km²).

PERIOD OF RECORD.--August 1956 to current year.

GAGE.--Nonrecording gage and crest-stage gage. Datum of gage is 539.26 ft (164.366 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage since October 1965).--18 years, 23.5 ft³/s (0.666 m³/s), 23.29 in/yr (592 mm/yr).

EXTREMES.--Current year: Maximum discharge, 850 ft³/s (24.1 m³/s) Dec. 21, gage height, 3.82 ft (1.164 m); minimum observed, 1.8 ft³/s (0.051 m³/s) Sept. 1, 2, 3, gage height, 0.96 ft (0.293 m).

Period of record: Maximum discharge, 1,500 ft³/s (42.5 m³/s) Aug. 5, 1969, gage height, 4.85 ft (1.478 m); minimum observed, 0.3 ft³/s (0.008 m³/s) Aug. 19, 1963, and Aug. 24, 1964; minimum gage height observed, 0.86 ft (0.262 m) Aug. 24, 1964.

Flood of Aug. 19, 1955 reached a discharge of 6,200 ft³/s (176 m³/s) at site 2.5 mi (4.0 km) upstream, drainage area 9.30 mi² (15.0 km²).

REMARKS.--Records good. Flow regulated by Lake Winchester, and by East Branch Detention Reservoir (see p.101). See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	34	18	54	41	26	50	88	26	11	3.6	3.3
2	3.6	23	14	43	33	21	49	23	16	7.7	3.3	1.8
3	4.0	17	13	37	31	19	47	26	13	9.6	3.6	72
4	3.6	13	13	36	29	26	58	30	12	14	4.3	86
5	9.1	11	30	30	28	30	74	22	9.6	35	4.0	14
6	5.1	9.6	64	30	27	26	60	19	8.6	84	3.6	9.1
7	4.5	8.6	29	29	26	23	43	34	7.7	16	3.6	24
8	4.5	7.7	23	21	21	21	38	23	6.7	3.6	3.6	11
9	4.5	7.7	84	20	19	20	72	19	6.4	5.1	3.5	7.7
10	3.6	7.7	84	28	19	22	44	46	5.6	5.6	3.1	6.2
11	3.8	6.7	44	41	19	19	43	31	5.6	4.0	2.8	5.4
12	4.0	6.2	33	28	16	16	50	88	5.4	5.1	3.0	4.5
13	4.3	6.4	30	25	18	17	50	100	6.7	5.1	3.0	4.0
14	3.6	6.2	135	23	18	15	44	44	5.6	3.6	7.7	5.1
15	3.6	6.7	55	22	15	12	90	36	5.1	5.6	3.3	3.8
16	3.8	12	38	21	16	41	50	30	5.1	5.6	3.3	3.1
17	4.0	9.6	50	19	12	106	38	27	19	4.8	3.0	2.8
18	4.5	7.7	41	18	14	49	33	23	11	4.0	4.5	3.3
19	4.0	6.7	47	17	11	38	40	19	7.7	7.7	3.8	3.1
20	4.5	7.2	163	17	57	33	33	17	7.7	6.7	3.3	3.0
21	3.8	6.7	458	19	30	148	29	15	8.6	5.1	3.0	6.2
22	4.0	10	216	78	72	121	26	14	9.6	4.5	3.0	13
23	4.3	8.1	192	47	82	60	26	21	9.6	4.0	4.3	6.4
24	4.0	7.2	175	44	37	47	23	21	8.6	3.8	4.8	5.6
25	4.3	23	152	34	34	38	21	18	7.7	6.4	3.6	4.5
26	4.0	18	140	38	26	29	19	15	9.6	5.1	3.3	4.5
27	4.3	16	142	118	21	30	18	14	9.6	5.6	3.3	4.0
28	4.0	34	130	88	20	28	14	14	8.6	4.5	4.0	33
29	140	38	80	103	------	23	15	16	7.7	5.4	4.5	155
30	178	23	68	60	------	23	27	16	6.7	4.5	18	60
31	36	------	55	50	------	57	------	13	------	4.0	8.6	------
TOTAL	473.3	398.7	2,816	1,222	792	1,184	1,224	922	276.8	296.7	134.3	565.4
MEAN	15.3	13.3	90.8	39.4	28.3	38.2	40.8	29.7	9.23	9.57	4.33	18.8
MAX	178	38	458	118	82	148	90	100	26	84	18	155
MIN	3.6	6.2	13	17	11	12	14	13	5.1	3.6	2.8	1.8
(†)	+0.1	+0.4	0	0	0	0	0	0	0	-0.1	-0.4	+0.5
MEAN‡	15.4	13.7	90.8	39.4	28.3	38.2	40.8	29.7	9.23	9.47	3.93	23.8
CFSM‡	1.12	1.00	6.63	2.88	2.07	2.79	2.98	2.17	0.67	0.69	0.29	1.74
IN‡	1.29	1.12	7.64	3.32	2.16	3.22	3.32	2.50	0.75	0.80	0.33	1.94

CAL YR 1973 TOTAL 12,207.7 MEAN 33.4 MAX 458 MIN 2.2 MEAN‡ 33.4 CFSM‡ 2.44 IN‡ 33.19
WTR YR 1974 TOTAL 10,305.2 MEAN 28.2 MAX 458 MIN 1.8 MEAN‡ 28.2 CFSM‡ 2.06 IN‡ 28.39

†Change in contents in Lake Winchester and East Branch Detention Reservoir, equivalent in cubic feet per second; records for East Branch Detention Reservoir furnished by Corps of Engineers.

‡Adjusted for change in contents.

01206900 Naugatuck River at Thomaston, Conn.

LOCATION.--Lat 41°40'25", long 73°04'12", Litchfield County, on left bank at downstream side of bridge on U.S. Highways 6 and 202 at Thomaston, 1.5 mi (2.4 km) downstream from Thomaston Reservoir, 2.5 mi (4.0 km) upstream from Branch Brook, and at mile 29.5 (47.5 km).

DRAINAGE AREA.--99.2 mi² (256.9 km²).

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 354.39 ft (108.018 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage).--15 years, 186 ft³/s (5.268 m³/s), 25.46 in/yr (647 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,200 ft³/s (90.6 m³/s) Dec. 23, gage height, 5.29 ft (1.612 m); minimum, 9.5 ft³/s (0.27 m³/s) July 23, 24, gage height, 1.45 ft (0.442 m).

Period of record: Maximum discharge, 5,140 ft³/s (146 m³/s) Mar. 31, 1960, gage height, 6.25 ft (1.905 m); minimum, 6.6 ft³/s (0.19 m³/s) Sept. 20, 1964, gage height, 1.39 ft (0.424 m); minimum daily, 8.4 ft³/s (0.24 m³/s) Sept. 14, 21, 27, 28, 1964.

Flood of Aug. 19, 1955, reached a stage of 27.0 ft (8.23 m), from floodmarks by Corps of Engineers, discharge, 53,400 ft³/s (1,510 m³/s), from indirect measurements of peak flow on Naugatuck River, 71.9 mi² (186.2 km²), and Leadmine Brook, 24.0 mi² (62.2 km²), adjusted for intervening drainage area.

REMARKS.--Records excellent except those for periods of no gage-height record Nov. 17-28, Dec. 2-20, Dec. 28 to Jan. 1, which are fair. Slight diurnal fluctuation at low flow. Flow regulated by Thomaston Reservoir, Hall Meadow Brook and East Branch Detention Reservoirs and Lake Winchester (see p.101).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	267	130	350	305	220	463	250	151	66	12	68
2	32	190	110	330	305	216	450	205	145	52	12	52
3	32	142	108	288	300	194	396	181	116	75	24	73
4	31	111	100	267	267	212	450	241	97	75	33	426
5	36	95	300	229	220	241	476	181	83	58	39	209
6	34	85	600	220	224	220	652	156	75	250	32	122
7	30	79	300	205	220	197	402	190	68	156	27	122
8	29	75	200	178	201	187	315	168	62	79	26	131
9	28	72	700	162	187	184	578	148	61	58	25	95
10	28	68	400	205	190	209	420	267	56	48	23	73
11	27	62	450	254	168	184	351	315	51	42	21	62
12	27	61	300	250	159	165	414	250	48	36	20	55
13	27	61	250	241	162	142	402	756	59	31	20	51
14	27	61	500	147	178	131	390	414	51	29	20	56
15	25	59	550	178	151	134	772	295	49	36	20	53
16	26	68	350	171	137	267	549	224	43	73	19	43
17	26	70	450	162	137	946	336	194	134	45	25	39
18	27	70	350	139	128	652	281	168	95	38	61	38
19	28	65	750	240	146	362	295	145	84	35	44	39
20	31	65	750	224	502	286	276	131	55	51	31	39
21	32	65	364	254	305	450	233	119	56	38	27	92
22	34	70	890	529	450	1,250	212	113	62	31	25	212
23	30	75	2,596	476	874	892	209	137	66	33	27	113
24	34	80	2,920	426	444	444	201	171	64	11	35	73
25	33	150	1,450	315	310	346	187	156	55	53	33	59
26	29	140	1,460	276	233	281	171	134	62	49	28	53
27	30	130	1,950	637	196	254	159	122	64	43	27	49
28	30	210	800	943	187	224	148	113	61	48	33	58
29	68	210	600	1,150	------	205	142	122	55	45	39	682
30	666	159	450	708	------	212	139	134	52	52	64	1,050
31	1,350	------	400	649	------	438	------	113	------	39	97	------
TOTAL	2,917	3,115	21,996	10,746	7,366	10,350	10,469	6,313	2,160	1,775	964	4,287
MEAN	94.1	104	709	348	263	334	349	204	72.0	57.3	31.1	143
MAX	1,350	267	2,920	1,150	874	1,250	772	756	151	250	97	1,050
MIN	25	59	100	139	128	131	139	113	43	11	12	38
(†)	+0.4	+0.3	+0.4	0	-0.4	+0.6	-0.6	-0.1	-0.2	+1.3	+1.5	+17.0
MEAN‡	94.5	104	709	348	263	335	348	204	72.0	58.6	32.8	160
CFSM‡	0.95	1.05	7.15	3.51	2.65	3.38	3.51	2.06	0.73	0.59	0.33	1.61
IN‡	1.10	1.17	8.24	4.05	2.76	3.90	3.92	2.38	0.81	0.68	0.38	1.80

CAL YR 1973 TOTAL 104,831 MEAN 287 MAX 2,920 MIN 21 MEAN‡ 287 CFSM‡ 2.89 IN‡ 39.29
WTR YR 1974 TOTAL 82,511 MEAN 226 MAX 2,920 MIN 11 MEAN‡ 228 CFSM‡ 2.30 IN‡ 31.19

†Change in contents in Hall Meadow Brook and East Branch Detention Reservoirs, Lake Winchester, and Thomaston Reservoir, equivalent in cubic feet per second; reservoir records furnished by Corps of Engineers.

‡Adjusted for change in contents.

01208012 Branch Brook near Thomaston, Conn.

LOCATION.--41°39'26", long 73°06'10", Litchfield County, on left bank 200 ft (60 m) below outlet of Black Rock Reservoir and 1.8 mi (2.9 km) southwest of Thomaston.

DRAINAGE AREA.--20.6 mi² (53.4 km²).

PERIOD OF RECORD.--June 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 377.21 ft (114.974 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 555 ft³/s (15.7 m³/s) Dec. 22, gage height, 3.45 ft (1.052 m); minimum discharge, 0.7 ft³/s (0.020 m³/s) July 16.

Period of record: Maximum discharge, 585 ft³/s (16.6 m³/s) Feb. 6, 1973; maximum gage height, 3.87 ft (1.180 m) Dec. 7, 1972; minimum discharge, 0.7 ft³/s (0.020 m³/s) June 22, 1973, July 16, 1974.

REMARKS.--Records good except those for period of no gage-height record Oct. 27 to Nov. 28, which are fair, and those for period of uncertain low-flow stage-discharge relation June 5 to Aug. 28, which are poor. Flow regulated by Black Rock Reservoir immediately upstream and by storage by city of Waterbury in Pitch, Morris, and Wigwam Reservoirs further upstream (see p. 101,102).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	30	10	59	60	27	66	38	20	5.8	4.6	7.1
2	3.7	20	7.3	55	52	30	54	30	20	2.6	2.2	6.2
3	4.5	15	7.8	45	50	28	46	29	10	5.0	7.1	20
4	3.8	12	5.4	46	43	27	64	40	8.2	8.7	8.7	72
5	5.8	10	33	38	32	29	62	29	6.2	6.2	9.3	17
6	7.5	9.0	77	39	27	23	69	23	4.0	13	5.0	8.2
7	4.2	8.0	25	35	29	22	45	20	1.9	8.2	1.7	19
8	3.6	7.0	21	30	25	20	37	13	.90	6.6	2.0	15
9	3.7	6.5	106	30	22	20	103	6.2	3.7	1.9	1.5	9.9
10	4.8	6.5	162	34	19	35	70	42	3.4	1.2	1.4	5.0
11	4.7	6.5	48	40	18	29	48	55	1.2	.80	5.4	2.9
12	2.5	6.5	27	40	15	21	43	57	1.1	2.4	5.8	1.1
13	1.7	6.5	19	34	9.0	22	48	153	1.1	1.9	1.5	.83
14	2.8	6.5	104	28	14	21	58	69	1.9	1.2	1.7	4.6
15	2.1	6.5	57	25	15	11	176	52	1.1	.90	1.4	2.6
16	1.7	7.0	33	24	13	33	70	42	.80	.70	1.2	2.4
17	1.5	6.5	72	25	21	124	49	35	6.2	.80	1.7	.76
18	1.3	6.0	52	20	17	57	40	31	5.4	.80	10	.83
19	1.2	6.0	27	19	16	38	38	27	4.6	1.1	7.1	4.0
20	1.2	5.5	25	18	60	38	39	16	2.0	1.1	3.4	4.3
21	1.2	6.0	58	49	34	90	33	8.7	1.2	.80	3.1	5.4
22	1.2	6.5	256	42	67	242	28	13	1.4	.80	1.5	9.3
23	1.2	7.0	477	74	86	59	25	9.3	2.6	.80	3.4	3.7
24	1.3	10	454	76	40	48	25	15	4.3	.80	7.1	.83
25	1.5	30	336	61	36	34	25	15	1.4	4.6	7.6	1.2
26	1.4	15	95	53	28	27	28	14	1.4	1.4	6.2	1.9
27	1.4	13	171	219	22	27	27	14	1.4	1.5	2.9	1.1
28	3.0	12	97	230	21	23	26	12	1.4	1.4	2.0	7.1
29	10	10	76	173	------	21	24	8.2	1.4	1.5	4.3	194
30	110	7.2	70	90	------	22	23	8.2	1.5	4.6	7.6	140
31	80	------	60	72	------	52	------	4.3	------	6.2	8.2	------
TOTAL	279.0	304.2	3,068.5	1,873	899.0	1,305	1,489	928.9	121.70	95.30	136.6	568.25
MEAN	9.00	10.1	99.0	60.4	32.1	42.1	49.6	30.0	4.06	3.07	4.41	18.9
MAX	110	30	477	230	86	242	176	153	20	13	10	194
MIN	1.2	5.5	5.4	18	9.0	11	23	4.3	.80	.70	1.2	.76

CAL YR 1973 TOTAL 13,882.85 MEAN 38.0 MAX 484 MIN .85
WTR YR 1974 TOTAL 11,068.45 MEAN 30.3 MAX 477 MIN .70

01208420 Hop Brook near Naugatuck, Conn.

LOCATION.--Lat 41°30'21", long 73°03'31", New Haven County, on left bank 30 feet (9 m) downstream from Porter Avenue bridge at the borough of Naugatuck golf course, 400 feet (100 m) east of State Highway 63, 0.8 mile (1.3 km) downstream from Hop Brook Lake, 1.4 mi (2.3 km) north of Naugatuck, and 0.6 mi (1.0 km) upstream from mouth.

DRAINAGE AREA.--16.3 mi² (42.2 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 206.29 ft (62.877 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 35.9 ft³/s (1.017 m³/s).

EXTREMES.--Current year: Maximum discharge, 535 ft³/s (15.2 m³/s) Dec. 22, gage height, 3.95 ft (1.204 m); minimum, 0.34 ft³/s (0.010 m³/s) Aug. 20, 21; minimum gage height, 1.21 ft (0.369 m) July 18, 19, 23, 24, Aug. 20, 21.

Period of record: Maximum discharge, 535 ft³/s (15.2 m³/s) Dec. 22, 1973, gage height, 3.95 ft (1.204 m); minimum, 0.06 ft³/s (0.002 m³/s) Aug. 20, 23, 1970, gage height, 0.33 ft (0.101 m).

Flood of August 19, 1955, reached a discharge of 2,650 ft³/s (75.0 m³/s), by computation of peak flow by flow-through-culvert method.

REMARKS.--Records good. Flow regulated by Hop Brook Lake (see p.102).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	32	14	49	52	31	67	29	34	11	2.6	14
2	3.9	21	12	46	46	30	49	22	26	8.1	1.6	15
3	4.0	15	11	40	42	28	41	33	19	10	5.7	32
4	3.6	12	12	39	40	30	125	34	16	14	6.6	144
5	3.2	11	23	35	36	29	85	24	14	9.0	7.0	38
6	3.2	10	47	34	32	26	77	22	12	22	5.0	20
7	2.9	8.9	36	32	35	25	52	23	11	12	3.6	54
8	2.7	8.3	26	28	31	26	46	21	10	7.8	3.0	34
9	2.5	8.0	102	25	30	25	129	19	10	6.1	2.3	20
10	2.4	7.2	144	24	30	39	79	49	9.4	5.2	1.8	15
11	2.5	6.3	50	36	28	30	55	35	8.1	4.1	1.3	12
12	2.3	6.3	37	38	25	26	48	97	6.4	4.1	1.2	11
13	2.1	6.4	30	35	27	22	54	115	7.0	4.1	.99	10
14	2.4	6.7	78	30	31	20	57	44	6.5	4.1	.82	17
15	2.7	6.4	51	27	26	21	124	34	5.5	4.4	.59	12
16	2.1	7.7	36	27	22	56	61	24	6.9	4.1	.50	8.0
17	2.1	7.8	85	26	23	140	47	25	29	4.1	1.3	7.4
18	2.6	6.6	61	25	21	52	42	22	14	2.0	15	7.0
19	2.2	6.1	35	26	37	40	46	20	9.7	.70	5.1	6.7
20	2.2	5.8	33	23	102	35	42	18	8.0	.74	1.1	6.7
21	2.1	5.5	59	73	45	97	38	17	14	.62	.50	8.0
22	2.1	6.4	216	139	71	257	34	16	21	.62	1.2	25
23	2.0	6.2	499	42	72	70	34	22	13	.58	1.9	13
24	2.6	7.1	426	88	40	54	33	26	13	.50	3.1	9.0
25	2.0	24	120	63	36	47	29	27	10	6.1	2.0	7.6
26	1.9	19	73	50	33	42	27	22	9.8	6.0	1.4	7.6
27	1.6	9.8	125	163	29	39	25	22	8.6	4.3	1.2	7.0
28	1.5	8.2	77	130	29	35	26	19	8.9	4.1	10	11
29	9.6	7.6	50	109	------	32	23	21	8.5	3.8	53	193
30	107	12	57	71	------	36	22	23	8.1	3.5	58	198
31	75	------	44	61	------	45	------	18	------	3.3	37	------
TOTAL	258.3	306.9	2,795	1,716	1,069	1,527	1,613	910	377.4	171.15	234.40	961.8
MEAN	8.33	10.2	90.2	55.3	38.2	49.3	53.8	29.4	12.6	5.52	7.56	32.1
MAX	107	32	499	163	102	257	129	115	34	22	58	198
MIN	1.5	5.5	11	23	21	20	22	16	5.5	.50	.50	6.7

CAL YR 1973 TOTAL 15,699.60 MEAN 42.0 MAX 499 MIN 1.5
WTR YR 1974 TOTAL 11,935.95 MEAN 32.7 MAX 499 MIN .50

01208500 Naugatuck River at Beacon Falls, Conn.

LOCATION.--Lat 41°26'32", long 73°03'47", New Haven County, on left bank at downstream side of bridge on Bridge Street at Beacon Falls, 0.4 mi (0.6 km) upstream from Bronson Brook, and at mile 10.1 (16.2 km).

DRAINAGE AREA.--259 mi² (671 km²).

PERIOD OF RECORD.--June 1918 to September 1924, September 1928 to September 1955 (published as "near Naugatuck"), October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 117.28 ft (35.747 m) above mean level. Prior to Oct. 1, 1955, water-stage recorder at site 2.5 mi (4.0 km) upstream at datum 37.89 ft (11.549 m) higher. Oct. 1, 1955, to Mar. 21, 1957, nonrecording gage at present site and datum.

AVERAGE DISCHARGE (adjusted for storage and diversion).--52 years, 1918-24, 1928-74, 480 ft³/s (13.594 m³/s), 25.17 in/yr (639 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,300 ft³/s (207 m³/s) Dec. 21, gage height, 9.48 ft (2.890 m); minimum, 88 ft³/s (2.49 m³/s) Aug. 17, gage height, 1.91 ft (0.582 m).

Period of record: Maximum discharge, 106,000 ft³/s (3,000 m³/s) Aug. 19, 1955, gage height, 25.7 ft (7.83 m) from floodmarks, from rating curve extended above 9,000 ft³/s (255 m³/s) on basis of slope-area measurements of peak flow at gage heights 12.4 and 25.7 ft (3.78 and 7.83 m), site and datum then in use; minimum, 24 ft³/s (0.68 m³/s) Oct. 21, 1935; minimum daily, 40 ft³/s (0.11 m³/s) Oct. 5, 12, 1930, Sept. 7, 1930; minimum gage height, present site and datum, 1.32 ft (0.402 m) Aug. 28, 1966.

Flood in November 1927 reached a stage of 14 ft (4.3 m), former site and datum, discharge, about 26,000 ft³/s (736 m³/s).

REMARKS.--Records excellent. Flow regulated by Lake Winchester, Hall Meadow Brook, East Branch, Thomaston, Pitch, Morris, and Wigwam Reservoirs, Northfield Brook, Hancock Brook, and Hop Brook Lakes (see p. 101,102), and during low flow, by industrial plants upstream. Flow increased by diversion from Shepaug Reservoir into Naugatuck River basin. Town of Watertown diverts about 0.5 mgd (0.026 m³/s) from Pomperaug River basin into Naugatuck River about 10 mi (16 km) upstream. Records of water quality for the current year are published in Part 2 of this report. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	483	353	1,090	1,090	612	1,240	645	470	195	119	204
2	142	526	245	934	938	637	1,140	566	446	173	97	204
3	146	419	271	855	851	576	1,020	594	344	224	156	456
4	146	339	270	833	801	592	1,440	702	246	224	433	1,450
5	144	306	451	723	670	625	1,340	565	256	198	339	613
6	145	238	1,560	893	623	584	1,500	476	237	413	163	363
7	135	237	828	657	678	535	1,100	444	215	368	131	615
8	134	228	551	591	628	586	945	454	201	230	122	432
9	132	221	1,560	515	573	528	1,730	407	184	161	114	312
10	134	207	2,440	575	525	669	1,400	726	160	140	105	256
11	133	183	1,310	712	538	564	1,050	838	168	127	92	220
12	132	183	866	714	498	496	1,030	822	153	115	97	190
13	126	157	673	558	446	440	1,060	1,890	158	108	104	168
14	124	147	1,360	538	567	415	1,120	1,040	152	102	99	261
15	131	200	1,460	524	442	394	2,130	769	146	116	99	176
16	130	218	951	504	426	761	1,460	640	162	200	95	158
17	128	236	1,220	513	440	2,090	1,040	567	456	145	206	144
18	133	199	1,040	410	415	1,380	912	478	282	125	253	141
19	131	193	847	420	621	958	914	421	205	136	153	137
20	128	184	667	415	1,300	838	898	391	176	115	129	137
21	128	174	5,160	1,000	930	2,040	784	359	260	115	114	253
22	130	181	2,970	1,960	1,130	2,850	710	341	241	109	115	486
23	134	186	4,190	1,500	1,650	1,900	643	385	182	108	125	300
24	131	213	4,240	1,300	1,080	1,200	671	447	196	118	112	216
25	133	418	3,290	1,090	847	1,010	622	433	173	234	101	196
26	128	373	2,600	888	715	866	546	393	165	149	103	175
27	122	337	3,170	2,210	614	806	536	369	168	140	103	163
28	117	366	2,580	2,550	595	729	499	366	183	126	228	239
29	218	963	1,870	2,360	------	666	470	364	175	136	442	2,700
30	2,040	441	1,340	1,730	------	731	447	399	160	150	487	2,140
31	1,800	------	1,170	1,270	------	1,240	------	366	------	158	351	------
TOTAL	7,794	9,091	51,453	31,410	20,703	28,320	30,577	17,707	6,793	5,181	5,385	13,497
MEAN	251	303	1,660	1,013	739	914	1,019	571	226	167	174	450
MAX	2,040	963	5,160	2,550	1,650	2,850	2,130	1,890	470	413	487	2,700
MIN	117	174	245	410	415	394	447	341	146	102	92	137
(†)	-39.5	-25.3	-14.9	-25.3	-32.1	-28.0	-30.1	-27.8	-40.2	-38.5	-39.9	-14.5
MEAN‡	212	278	1,645	988	707	886	989	543	186	129	134	436
CFSM‡	0.82	1.07	6.35	3.81	2.73	3.42	3.82	2.10	0.72	0.50	0.52	1.68
IN‡	0.94	1.19	7.32	4.39	2.84	3.94	4.26	2.42	0.80	0.58	0.60	1.87

CAL YR 1973 TOTAL 274,961 MEAN 753 MAX 5,160 MIN 100 MEAN‡ 754 CFSM‡ 2.91 IN‡ 39.52
WTR YR 1974 TOTAL 227,407 MEAN 623 MAX 5,160 MIN 92 MEAN‡ 594 CFSM‡ 2.29 IN‡ 31.15

†Change in contents in Lake Winchester, Hall Meadow Brook, East Branch, Thomaston, Pitch, Morris, and Wigwam Reservoirs, Northfield Brook, Hancock Brook, and Hop Brook Lakes, and diversion from Shepaug Reservoir, equivalent in cubic feet per second; contents and diversion figures furnished by city of Waterbury and Corps of Engineers.

‡Adjusted for diversion and change in contents.

Reservoirs in Housatonic River basin

01201000. **LAKE CANDLEWOOD (ROCKY RIVER RESERVOIR).**--Lat 41°35'00", long 73°26'00", Litchfield County, Conn., on Rocky River, 2 mi (3 km) west of New Milford. Drainage area, 40.5 mi^2 (104.9 km^2). Usable capacity, 6,210,000,000 ft^3 (176,000,000 m^3). Records available, August 1928 to current year. Completed in 1928 for storage of water for power; impounds water pumped from the Housatonic River during off peak power periods. Records furnished by Connecticut Light and Power Company.

01201999. **CAIRNS RESERVOIR .**--Lat 41°44'40", long 73°18'05", Litchfield County, Conn., on West Branch Shepaug River, 2.6 mi (4.2 km) north of Woodville. Drainage area, 10.2 mi^2 (26.4 km^2). Usable capacity, 360,000,000 ft^3 (10,000,000 m^3). Records available November 1964 to current year. Completed in 1964 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.

01202000. **SHEPAUG RESERVOIR.**--Lat 41°43'24", long 73°17'37", Litchfield County, Conn., on Shepaug River, 1 mi (2 km) north of Woodville. Drainage area, 38.0 mi^2 (98.4 km^2). Usable capacity, 96,100,000 ft^3 (2,720,000 m^3), of which 76,900,000 ft^3 (2,180,000 m^3) can be diverted for municipal supply. Storage below diversion intake can be released through floodgates or through a fountain at toe of dam. Records available, January 1933 to current year. Completed in September 1933 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.

01203500. **LAKE LILLINONAH.**--Lat 41°26'52", long 73°17'49", New Haven County, Conn., on Housatonic River, and Fairfield County, Conn., 2.3 mi (3.7 km) north of Newtown. Drainage area, 1,392 mi^2 (3,605 km^2). Usable capacity above taintor gate sills, 1,756,000,000 ft^3 (49,730,000 m^3). Normal operating volume, 235,000,000 ft^3 (6,660,000 m^3). Records available, January 1955 to current year. Completed in 1955 for storage of water for power. Records furnished by Connecticut Light and Power Company.

01205000. **LAKE ZOAR.**--Lat 41°23'00", long 73°10'18", Fairfield County, Conn., on Housatonic River at Stevenson. Drainage area 1,541 mi^2 (3,991 km^2). Usable capacity, 331, 000,000 ft^3 (9,370,000 m^3). Records available, August 1928 to current year. Completed in 1919 for storage of water for power. Records furnished by Connecticut Light and Power Company.

01205560. **HALL MEADOW BROOK DETENTION RESERVOIR.**--Lat 41°52'10", long 73°10'04", Litchfield County, Conn., on Hall Meadow Brook in West Branch Naugatuck River basin, 5.2 mi (8.4 km) north of Torrington. Drainage area, 12.0 mi^2 (31.1 km^2). Usable capacity, 375,000,000 ft^3 (10,600,000 m^3). Records available, October 1964 to current year. Completed in 1962 by Corps of Engineers for recreation and flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.

01205610. **LAKE WINCHESTER.**--Lat 41°54'27", long 73°09'08", Litchfield County, Conn., 1 mi (2 km) northwest of Winchester on East Branch Naugatuck River. Drainage area, 2.18 mi^2 (5.65 m^2). Usable capacity, 116,200,000 ft^3 (3,290,000 m^3) based on lake survey by the Connecticut Board of Fisheries and Game. Records available, September 1965 to current year. Completed in 1926 for storage of water for power. Lake is presently used for conservation and recreation.

01205650. **EAST BRANCH DETENTION RESERVOIR.**--Lat 41°50'13", long 73°07'15", Litchfield County, Conn., on East Branch Naugatuck River, 2.3 mi (3.7 km) north of Torrington. Drainage area, 9.30 mi^2 (24.09 km^2). Usable capacity, 189,500,000 ft^3 (5,367,000 m^3). Records available, March 1965 to current year. Completed in 1964 by Corps of Engineers for recreation and flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.

01206600. **THOMASTON RESERVOIR.**--Lat 41°41'41", long 73°03'44", Litchfield County, Conn., on Naugatuck River, 0.2 mi (0.3 km) downstream from Leadmine Brook, 1.5 mi (2.4 km) north of Thomaston, and at mile 31.0 (49.9 km). Drainage area, 96.1 mi^2 (248.9 km^2). Usable capacity, 1,830,000,000 ft^3 (51,800,000 m^3). Records available, January 1961 to current year. Completed in December 1960 by Corps of Engineers for flood control. Records furnished by Corps of Engineers.

01206940. **NORTHFIELD BROOK LAKE.**--Lat 41°40'48", long 73°05'27", Litchfield County, Conn., on Northfield Brook in Naugatuck River basin, 1 mi (2 km) northwest of Thomaston. Drainage area, 5.52 mi^2 (14.30 km^2). Usable capacity, 104,000,000 ft^3 (2,950,000 m^3). Permanent pool capacity, 3,600,000 ft^3 (100,000 m^3). Records available, September 1965 to current year. Completed in 1965 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.

01207000. **PITCH RESERVOIR.**--Lat 41°41'34", long 73°09'04", Litchfield County, Conn., on Branch Brook in Naugatuck River basin, 4 mi (6.4 km) northwest of Thomaston. Drainage area, 5.93 mi^2 (15.36 km^2). Usable capacity, 189,000,000 ft^3 (5,350,000 m^3). Records available, October 1943 to current year. Completed in 1943 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.

01207500. **MORRIS RESERVOIR.**--Lat 41°40'29", long 73°08'39", Litchfield County, Conn., on Branch Brook in Naugatuck River basin, 3.5 mi (5.6 km) west of Thomaston. Drainage area, including Pitch Reservoir, 13.0 mi^2 (33.7 km^2). Usable capacity, 265,600,000 ft^3 (7,522,000 m^3). Records available, May 1918 to September 1924, September 1928 to current year. Completed in 1913 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.

01208000. **WIGWAM RESERVOIR.**--Lat 41°39'50", long 73°07'41", Litchfield County, Conn., on Branch Brook in Naugatuck River basin, 3 mi (5 km) west of Thomaston. Drainage area, including Pitch and Morris Reservoirs, 17.5 mi^2 (45.3 km^2). Usable capacity, 98,500,000 ft^3 (2,790,000 m^3). Records available, May 1918 to September 1924, September 1928 to current year. Completed in 1902 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.

Reservoirs in Housatonic River basin--continued

012080011. BLACK ROCK LAKE.--Lat 41°39'26", long 73°06'13", Litchfield County, Conn., on Branch Brook in Naugatuck River basin, 1.8 mi (2.9 km) southwest of Thomaston. Drainage area, 20.5 mi² (53.1 km²). Usable capacity, 373,000,000 ft³ (10,600,000 m³). Permanent pool capacity, 11,543,000 ft³ (326,900 m³). Records available, October 1970 to current year. Completed in 1970 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.

01208130. HANCOCK BROOK LAKE.--Lat 41°37'23", long 73°02'12", Litchfield County, Conn., on Hancock Brook in Naugatuck River basin, 1.1 mi (1.8 km) southwest of Hancock. Drainage area, 11.9 mi² (30.8 km²). Usable capacity 170,000,000 ft³ (4,800,000 m³). Permanent pool capacity, 5,700,000 ft³ (160,000 m³). Records available, September 1965 to current year. Completed in 1965 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.

01208410. HOP BROOK LAKE.--Lat 41°30'50", long 73°04'03", New Haven County, Conn., on Hop Brook in Naugatuck River basin, 1.2 mi (1.9 km) northwest of Union City. Drainage area, 16.0 mi² (41.4 km²). Usable capacity, 304,000,000 ft³ (8,610,000 m³). Records available, February 1969 to current year. Completed in 1969 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.

Month-end usable contents in millions of cubic feet, water year October 1973 to September 1974

Date	Lake Candlewood	Cairns Reservoir	Shepaug Reservoir	Lake Lillinonah	Lake Zoar	Hall Meadow Brook Detention Reservoir	Lake Winchester
Sept. 30, 1973....	5,834	227	75.5	1,521	303.3	0.5	115.0
Oct. 31...........	5,368	172	87.7	1,521	276.1	1.1	115.1
Nov. 30...........	5,356	187	85.9	1,537	303.3	1.0	116.2
Dec. 31...........	6,040	363	98.9	1,264	372.6	1.4	116.2
Jan. 31, 1974	5,931	365	99.4	1,074	377.3	1.7	116.2
Feb. 28...........	5,654	362	96.9	1,271	303.3	1.1	116.2
Mar. 31...........	5,967	363	98.2	1,128	349.3	1.6	116.2
Apr. 30...........	5,871	361	96.7	1,462	303.3	1.4	116.2
May 31...........	5,919	362	96.7	1,575	312.5	.9	116.2
June 30...........	5,028	361	63.0	1,597	303.3	.7	116.2
July 31...........	5,774	328	58.2	1,597	289.6	.5	116.1
Aug. 31...........	5,738	241	56.0	1,484	317.0	.7	114.9
Sept. 30...........	6,088	260	98.6	1,383	312.5	1.2	116.2

Date	East Branch Detention Reservoir	Thomaston Reservoir	Northfield Brook Lake	Pitch Reservoir	Morris Reservoir
Sept. 30, 1973....	0.1	0.2	4.6	189.8	267.2
Oct. 31...........	.2	.5	5.2	189.6	250.1
Nov. 30...........	.1	.3	4.2	189.6	253.3
Dec. 31...........	.2	.9	4.3	189.6	269.0
Jan. 31, 1974 ...	.2	.7	4.6	189.6	265.6
Feb. 28...........	.1	.5	4.3	189.6	265.9
Mar. 31...........	.1	1.6	4.4	189.6	266.8
Apr. 30...........	.2	1.2	4.1	189.6	266.8
May 31...........	.1	.5	4.9	189.6	266.8
June 30..	.1	.2	4.7	189.6	262.1
July 31...........	0	4.1	4.6	189.6	257.3
Aug. 31...........	.1	8.9	4.7	189.6	262.1
Sept. 30...........	.2	51.0	.6	189.8	264.6

Date	Wigwam Reservoir	Black Rock Lake	Hancock Brook Lake	Hop Brook Lake
Sept. 30, 1973...	98.5	13.4	7.2	0.9
Oct. 31..........	98.6	13.5	8.8	1.3
Nov. 30..........	97.3	13.4	5.5	5.6
Dec. 31..........	99.0	13.9	7.2	6.0
Jan. 31, 1974	100.4	13.9	7.5	6.0
Feb. 28..........	99.1	13.6	5.6	5.8
Mar. 31..........	99.7	13.9	8.1	6.7
Apr. 30..........	99.0	13.7	5.7	5.8
May 31..........	99.0	13.4	6.0	5.6
June 30..........	97.4	13.4	5.6	5.6
July 31..........	96.3	13.4	5.4	5.5
Aug. 31..........	98.8	13.5	7.2	5.8
Sept. 30..........	100.7	13.7	8.9	5.9

01208925 Mill River near Fairfield, Conn.

LOCATION.--Lat 41°09'55", long 73°16'14", Fairfield County, on right bank just downstream from bridge on Duck Farm Road, 1.5 mi (2.4 km) north of Fairfield, 18.3 mi (29.4 km) downstream from headwater of Aspetuck River, 14.0 mi (22.5 km) downstream from headwater of Mill River, and 2.3 mi (3.7 km) upstream from mouth at Southport Harbor.

DRAINAGE AREA.--29.8 mi² (77.2 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 15.89 ft (4.843 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 850 ft³/s (24.1 m³/s) Sept. 3, gage height, 5.68 ft (1.731 m); minimum, 1.3 ft³/s (0.037 m³/s) Aug. 16.

Period of record: Maximum discharge, 850 ft³/s (24.1 m³/s) Sept. 3, 1974, gage height, 5.68 ft (1.731 m); minimum, 1.3 ft³/s (0.037 m³/s) Aug. 16, 1974.

REMARKS.--Records good. Flow completely regulated by Easton, Hemlock, and Samp Mortar Reservoirs, usable capacity 609,900,000 ft³ (17.3 hm³), and diversions into Hemlock Reservoir from Aspetuck Reservoir in the Aspetuck River basin and by diversions from Hemlock and Easton Reservoirs by the Bridgeport Hydraulic Company for water supply of the cities of Bridgeport and Fairfield.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	31	12	77	80	65	105	33	27	7.3	2.5	9.0
2	3.4	26	13	67	59	43	61	26	19	6.1	2.1	9.0
3	3.4	21	13	56	55	41	84	29	15	5.8	7.5	152
4	3.4	14	16	62	53	39	130	36	13	5.4	6.0	217
5	3.4	16	24	52	52	39	111	27	12	5.4	12	39
6	3.1	15	76	46	43	36	100	22	11	5.7	5.4	23
7	2.8	16	91	45	41	36	76	26	9.4	4.6	3.8	103
8	2.8	13	27	44	42	36	61	33	9.2	4.4	3.2	37
9	2.8	13	144	41	43	36	119	40	8.9	4.1	2.7	25
10	3.1	12	98	42	38	51	123	99	8.4	3.8	2.7	22
11	2.8	10	41	50	36	42	83	20	7.3	3.0	1.7	18
12	2.6	10	36	51	36	35	65	30	7.5	2.9	1.7	16
13	2.8	9.5	31	44	35	41	69	47	9.2	2.5	1.7	15
14	3.1	9.5	51	39	37	35	75	30	7.8	2.5	1.9	15
15	2.5	7.6	38	38	35	29	121	27	7.3	5.3	1.5	12
16	2.5	8.8	36	37	34	44	109	25	8.1	6.0	1.3	11
17	2.2	7.6	44	37	34	100	76	25	19	3.5	5.7	10
18	2.2	7.6	65	33	33	43	62	26	11	2.9	16	9.5
19	2.5	7.6	38	42	38	47	89	25	8.1	3.0	9.0	9.5
20	2.2	6.5	33	43	97	43	49	20	7.1	3.2	6.0	9.5
21	2.5	6.5	363	110	93	274	59	15	26	2.1	4.8	28
22	2.2	7.0	222	143	95	309	53	18	18	2.1	3.8	22
23	2.6	5.0	88	149	116	161	55	20	13	2.1	5.4	11
24	2.2	7.6	52	125	78	115	56	25	12	2.9	4.4	9.5
25	2.6	13	43	117	59	88	45	25	10	4.8	3.2	9.0
26	2.6	12	82	83	59	66	41	20	8.5	3.5	2.7	9.0
27	2.0	4.0	191	120	45	63	36	20	8.5	4.1	3.5	8.2
28	1.8	22	137	125	44	52	31	15	8.0	3.5	3.0	13
29	18	15	107	127	------	50	30	25	8.0	7.5	12	114
30	113	13	94	109	------	60	29	16	7.2	5.1	53	31
31	34	------	77	89	------	116	------	16	------	3.5	19	------
TOTAL	241.2	376.6	2,412	2,243	1,508	2,256	2,199	917	342.5	130.0	208.0	1,017.0
MEAN	7.78	12.6	77.8	72.4	53.9	72.8	73.3	29.6	11.4	4.19	6.71	33.9
MAX	113	31	363	149	116	309	130	99	27	7.5	53	217
MIN	1.8	4.0	12	33	33	29	29	16	7.1	2.1	1.3	8.2

CAL YR 1973 TOTAL 19,417.5 MEAN 53.2 MAX 666 MIN 1.8
WTR YR 1974 TOTAL 13,901.1 MEAN 38.1 MAX 363 MIN 1.3

01208950 Sasco Brook near Southport, Conn.

LOCATION.--Lat 41°09'10", long 73°18'23", Fairfield County, on left downstream abutment of bridge on Hulls Farm Road, 1.5 mi (2.4 km) northwest of Southport.

DRAINAGE AREA.--7.27 mi² (19.03 km²).

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximum, water years 1961-64. October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 52.01 ft (15.853 m) above mean sea level. Sept. 6, 1960, to Oct. 6, 1964, crest-stage gage, Oct. 7, 1964 to June 16, 1966, water-stage recorder, and June 17, 1966, to Apr. 27, 1969, nonrecording gage and crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--10 years, 12.4 ft³/s (0.351 m³/s), 23.16 in/yr (588 mm/yr).

EXTREMES.--Current year: Maximum discharge, 308 ft³/s (8.72 m³/s) Dec. 21, gage height, 3.66 ft (1.116 m); minimum, about 0.3 ft³/s (0.01 m³/s) July 23, 24.

Period of record: Maximum discharge, 1,640 ft³/s (46.4 m³/s) June 19, 1972, gage height, 7.00 ft (2.134 m); minimum, 0.01 ft³/s (<0.001 m³/s) Aug. 28, Oct. 1, 2, 6-12, 1964, Aug. 13, 14, Aug. 22 to Sept. 3, 1966.

PEAK DISCHARGE.--(BASE, 100 ft³/s):

DATE	TIME	G.H.	DISCHARGE
12-09	1830	2.99	175
12-21	1530	3.66	308
03-21	1830	3.42	267
09-04	0100	unknown	about 275
09-29	0430	2.83	151

REMARKS.--Records good except those for periods of no gage-height record Jan. 20 to Mar. 20 and July 4 to Sept. 25, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	12	5.2	29	21	13	44	9.4	15	1.8	.60	4.2
2	1.4	4.2	4.7	24	19	12	30	8.2	12	1.8	.60	3.9
3	1.4	4.2	4.7	21	18	12	24	13	7.9	1.6	1.0	61
4	1.4	5.2	4.7	22	16	13	66	12	6.2	1.6	13	110
5	1.4	4.7	15	20	12	12	42	9.7	5.7	1.6	15	29
6	1.9	4.5	45	16	13	11	33	8.6	5.2	2.0	3.0	12
7	1.8	4.2	16	18	13	11	25	9.4	4.5	1.5	2.0	40
8	1.4	4.0	4.4	15	13	10	22	9.1	4.5	1.2	1.7	32
9	1.4	4.0	24	13	10	13	49	7.9	4.2	1.0	1.5	15
10	1.4	3.8	46	15	4.5	20	31	22	3.8	.90	1.0	11
11	1.5	3.6	26	20	4.5	13	26	18	3.3	.80	.60	9.0
12	1.5	3.6	16	24	4.5	11	22	13	3.2	.70	.60	8.0
13	1.5	3.6	15	16	4.5	11	24	30	3.3	.70	.60	7.0
14	1.5	3.6	35	13	4.5	10	26	15	3.0	.60	.60	7.0
15	1.5	3.6	25	13	4.5	10	25	11	2.8	.60	.50	6.0
16	1.5	3.6	19	13	4.2	23	26	9.4	2.6	.50	.50	6.0
17	1.5	3.2	58	13	4.2	66	20	9.1	5.2	.50	2.0	6.0
18	1.5	3.2	33	11	4.2	22	18	8.2	4.9	.50	2.3	5.0
19	1.5	3.2	18	13	4.2	16	21	7.4	3.3	.40	1.1	5.0
20	1.5	3.0	20	26	4.2	33	18	6.8	2.6	.40	.70	4.2
21	1.5	3.0	193	42	12	114	16	6.2	8.5	.40	.60	20
22	1.5	3.3	91	51	14	92	15	6.2	19	.40	.50	29
23	1.5	3.3	46	51	22	41	15	6.2	7.4	.30	.50	16
24	1.4	3.4	34	41	14	32	13	7.6	7.1	.30	.60	7.0
25	1.4	7.4	27	33	16	26	12	4.1	6.7	.40	.50	5.0
26	1.5	6.5	40	30	16	23	11	7.4	4.2	.60	.50	4.7
27	1.5	5.7	72	55	12	21	11	6.5	4.0	.70	.40	7.6
28	1.5	16	41	30	12	19	11	6.2	3.6	.60	.70	11
29	5.2	9.9	31	50	------	18	10	6.0	4.0	.70	10	101
30	44	8.4	29	28	------	22	10	9.7	2.6	.80	13	29
31	21	------	25	29	------	66	------	7.4	------	.80	8.5	------
TOTAL	124.4	156.3	1,138.1	816	351.0	806	731	319.3	168.1	27.40	86.90	617.6
MEAN	4.01	5.21	36.7	26.3	12.5	26.0	24.4	10.3	5.60	.88	2.80	20.6
MAX	44	16	193	55	22	114	66	30	19	2.0	15	110
MIN	1.4	3.0	4.7	11	4.2	10	10	6.2	2.6	.30	.40	3.9
CFSM	.55	.72	5.05	3.62	1.72	3.58	3.36	1.42	.77	.12	.39	2.83
IN.	.64	.80	5.83	4.17	1.80	4.12	3.74	1.63	.86	.14	.44	3.16

CAL YR 1973 TOTAL 6,577.20 MEAN 18.0 MAX 271 MIN 1.4 CFSM 2.48 IN 33.63
WTR YR 1974 TOTAL 5,341.13 MEAN 14.6 MAX 193 MIN .30 CFSM 2.01 IN 27.33

01208990 Saugatuck River near Redding, Conn.

LOCATION.--Lat 41°17'40", long 73°23'46", Fairfield County, on downstream side of bridge on State Highway 53, 100 ft (30 m) south of intersection of State Highways 53 and 107, 0.8 mi (1.3 km) upstream from Saugatuck Reservoir, and 1.0 mi (1.6 km) southwest of Redding.

DRAINAGE AREA.--20.8 mi² (53.9 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961-64, and annual maximum, water years 1962-64. October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 285.42 ft (86.996 m) above mean sea level. Nov. 7, 1961, to Oct. 4, 1964, crest-stage gage, Oct. 1, 1964 to Apr. 25, 1966, water-stage recorder, and Apr. 26, 1966 to Sept. 30, 1969, nonrecording gage and crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--10 years, 38.1 ft³/s (1.079 m³/s), 24.88 in/yr (632 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,390 ft³/s (39.4 m³/s) Dec. 21, gage height, 5.03 ft (1.533 m); minimum, 1.2 ft³/s (0.034 m³/s) July 23, 24, gage height, 0.99 ft (0.302 m).

Period of record: Maximum discharge, 2,160 ft³/s (61.2 m³/s) Mar. 25, 1969, gage height, 5.88 ft (1.792 m); minimum observed, 0.05 ft³/s (0.001 m³/s) Sept. 2, 1966, gage height, 0.66 ft (0.201 m).

PEAK DISCHARGE.--(BASE, 180 ft³/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-09	1630	3.07	236	03-21	1600	3.33	318
12-21	1430	5.03	1,390	08-04	1700	3.09	245
01-21	1900	2.96	203	09-03	1930	3.21	278
01-27	1230	3.01	218	09-29	0400	3.32	314

REMARKS.--Records good. Records of water quality for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	27	13	44	99	52	44	34	40	8.6	2.2	10
2	1.9	14	11	82	85	47	79	30	34	7.3	1.9	13
3	1.8	12	9.5	73	78	45	72	40	24	6.8	3.0	61
4	1.7	9.5	9.2	71	74	45	108	44	20	7.1	36	149
5	1.8	7.8	17	67	70	42	104	34	18	8.3	34	68
6	1.8	6.7	52	60	60	34	106	31	16	8.2	12	46
7	1.9	5.9	32	57	56	38	88	33	14	7.1	8.9	74
8	1.7	5.7	26	50	53	36	78	28	13	5.5	6.5	51
9	1.6	5.4	41	50	52	43	133	26	13	4.8	5.0	36
10	1.7	5.2	115	46	45	57	119	55	11	4.2	4.2	28
11	1.7	4.8	78	57	45	43	47	47	10	3.5	3.5	23
12	1.7	5.0	63	60	44	40	67	53	8.8	3.0	2.7	19
13	1.6	8.0	58	45	42	38	94	109	9.2	2.8	2.4	16
14	1.7	11	98	45	44	33	47	70	7.9	2.7	2.2	16
15	1.7	9.5	73	42	40	32	144	57	7.1	2.6	1.9	13
16	1.6	4.6	60	38	35	58	104	49	7.3	2.3	1.7	12
17	1.5	7.8	66	40	35	104	88	45	21	2.2	5.3	10
18	1.5	6.7	50	40	35	67	74	40	15	2.0	6.5	9.5
19	1.6	5.9	43	40	35	54	88	33	11	2.0	3.6	8.9
20	1.6	5.6	42	58	35	53	43	30	9.8	2.2	2.7	8.2
21	1.6	5.2	791	46	49	139	71	26	14	1.8	2.2	15
22	1.6	5.4	604	134	79	151	66	24	15	1.6	1.9	44
23	1.6	5.6	305	121	91	115	62	26	12	1.4	2.0	16
24	1.6	5.7	198	119	71	100	57	33	12	1.5	2.6	12
25	1.6	11	149	102	60	86	52	40	10	3.1	2.0	11
26	1.7	13	161	94	63	73	67	28	10	3.0	1.7	10
27	1.6	10	203	177	57	67	43	24	9.8	2.4	1.6	9.5
28	1.6	23	156	158	57	60	39	21	9.2	2.2	2.7	9.2
29	4.1	21	129	164	------	54	37	29	9.5	2.4	26	203
30	70	15	117	133	------	49	36	31	8.6	3.0	28	123
31	33	------	99	115	------	106	------	23	------	2.8	15	------
TOTAL	154.3	290.6	3,915.7	2,533	1,598	1,975	2,446	1,193	421.0	116.4	229.9	1,124.3
MEAN	4.98	9.69	126	81.7	57.1	63.7	81.5	38.5	14.0	3.75	7.42	37.5
MAX	70	27	791	177	99	151	144	109	40	8.6	36	203
MIN	1.5	4.6	9.2	38	35	32	36	21	7.1	1.4	1.6	8.2
CFSM	.24	.47	6.06	3.93	2.75	3.06	3.92	1.85	.67	.18	.36	1.80
IN.	.28	.52	7.00	4.53	2.86	3.53	4.37	2.13	.75	.21	.41	2.01

CAL YR 1973 TOTAL 20,366.3 MEAN 55.9 MAX 791 MIN 1.2 CFSM 2.69 IN 36.46
WTR YR 1974 TOTAL 15,997.2 MEAN 43.8 MAX 791 MIN 1.4 CFSM 2.11 IN 28.61

01209700 Norwalk River at South Wilton, Conn.

LOCATION.--Lat 41°09'49", long 73°25'11", Fairfield County, on right bank at upstream side of bridge on Kent Road at South Wilton, 2.5 mi (4.0 km) north of Norwalk.

DRAINAGE AREA.--30.0 mi² (77.7 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961-62. September 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 115.69 ft (35.262 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 50.4 ft³/s (1.427 m³/s) 22.8 in/yr (580 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 2,000 ft³/s (56.6 m³/s) Dec. 21; minimum, 1.9 ft³/s (0.054 m³/s) Oct. 4, 5, minimum gage height, 1.10 ft (0.335 m) Oct. 4, 5, Aug. 1, 2.

Period of record: Maximum discharge, 2,220 ft³/s (62.9 m³/s) June 19, 1972, gage height, 4.79 ft (1.460 m); minimum, 0.3 ft³/s (0.008 m³/s) Sept. 24, 1964, gage height, 0.82 ft (0.250 m).

Flood of October 1955 reached a stage of 13.5 ft (4.12 m), from floodmarks.

PEAK DISCHARGE.--(BASE, 300 ft³/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-09	1900	2.59	345	03-21	1900	3.04	594
12-21	unknown	unknown	about 2,000	09-04	unknown	unknown	about 500
01-21	2300	2.71	405	09-29	0300	3.29	763
01-27	1600	2.55	325				

REMARKS.--Records excellent except those for September, which are good. Occasional regulation at low flow by mill upstream. City of Norwalk diverts an indeterminable amount of water from Streets (Popes) Pond, drainage area 2.36 mi² (6.11 km²).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	51	16	134	116	66	155	44	57	13	3.8	25
2	4.4	30	13	113	105	61	124	39	49	11	4.0	30
3	4.0	19	11	102	94	59	89	46	39	9.6	11	70
4	3.7	15	11	99	83	61	176	61	30	9.0	52	300
5	3.5	12	21	87	80	57	159	45	25	8.4	70	150
6	3.5	11	92	78	66	52	155	39	22	8.4	29	80
7	3.5	9.0	52	72	68	48	121	39	20	7.9	18	150
8	3.5	8.0	36	64	62	47	102	35	14	7.4	11	100
9	3.5	8.0	153	59	57	51	218	33	19	6.4	9.0	80
10	3.7	7.2	174	62	52	83	194	72	17	6.0	7.4	60
11	3.7	6.7	111	83	51	57	146	72	15	5.2	6.4	50
12	3.7	6.7	68	85	45	52	118	68	14	4.8	5.6	40
13	3.7	6.3	47	66	47	47	130	172	16	4.8	5.2	35
14	3.7	6.3	150	59	52	42	140	110	13	4.2	4.8	35
15	3.5	6.3	100	57	45	40	225	76	11	4.2	4.2	25
16	3.5	6.3	80	60	40	74	155	56	12	4.2	4.2	22
17	4.0	7.2	100	60	40	176	121	47	27	4.2	33	20
18	4.0	6.7	80	52	37	107	102	47	24	4.2	31	19
19	4.0	6.7	60	58	40	80	124	40	18	4.5	11	19
20	4.0	6.3	55	70	40	61	116	35	13	4.2	8.4	18
21	3.7	6.3	1,000	155	60	258	97	31	47	2.8	7.4	30
22	3.7	6.3	800	274	134	288	95	30	40	3.2	6.0	80
23	3.7	6.3	400	229	152	196	83	29	24	3.0	7.4	50
24	3.7	7.6	250	218	105	146	76	36	21	4.0	6.4	25
25	3.7	13	200	178	90	110	66	48	17	7.9	5.6	23
26	3.7	15	230	149	78	97	57	40	15	4.5	5.2	21
27	3.7	15	251	254	64	90	52	33	14	4.2	5.2	18
28	3.7	36	233	250	62	80	49	29	14	3.9	6.0	36
29	8.5	29	179	242	------	72	48	36	14	7.4	35	461
30	81	21	159	179	------	85	44	40	13	4.8	72	202
31	56	------	134	149	------	165	------	34	------	4.2	45	------
TOTAL	250.5	391.2	5,266	3,798	1,965	2,906	3,537	1,564	679	181.5	530.2	2,274
MEAN	8.08	13.0	170	123	70.2	93.7	118	50.5	22.6	5.85	17.1	75.8
MAX	81	51	1,000	274	152	288	225	172	57	13	72	461
MIN	3.5	6.3	11	52	37	40	44	29	11	2.8	3.8	18
CFSM	.27	.43	5.67	4.10	2.34	3.12	3.93	1.68	.75	.20	.57	2.53
IN.	.31	.49	6.53	4.71	2.44	3.60	4.39	1.94	.84	.23	.66	2.82

CAL YR 1973 TOTAL 28,535.8 MEAN 78.2 MAX 1,100 MIN 3.3 CFSM 2.61 IN 35.38

WTR YR 1974 TOTAL 23,342.4 MEAN 64.0 MAX 1,000 MIN 2.8 CFSM 2.13 IN 28.94

01209788 Stamford Hurricane Barrier at Stamford, Conn.

LOCATION.--Lat 41°02'13", long 73°32'06", Fairfield County, at control tower of U.S. Army Corps of Engineers hurricane barrier, near Woodland Cemetery, at South end of Stamford, in Long Island Sound.

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft (3.048 m) below mean sea level. Gage-height record converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Stage data in feet at 15-minute intervals available upon request.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum	Elevation	6.53	5.56	7.94	6.97	6.50	6.29	6.38	6.04	6.13	5.81	5.99	6.05
high tide	Date	29	12	9	9	7	30	9	24	25	20	17	17
	Time	1230	1130	0930	1145	1045	0330	0015	0015	1515	2400	2215	1145
Minimum	Elevation	-4.26	-5.22	-5.18	-5.17	-6.07	-5.40	-4.87	-4.36	-4.34	-4.69	-4.34	-4.34
low tide	Date	14	1	18	8	23	10	7	21	21	20	17	30
	Time	1900	2130	1145	1715	1845	1845	0530	0430	0615	0545	0430	0415

NOTE.--Time shown is eastern standard. Faulty gage-height record Feb. 25 to Mar. 1, Sept. 16, 17, 22, 23. The high tide of Sept. 17 is the highest recorded during September; tide may have been higher during period of faulty record Sept. 16.

As the number of streams on which streamflow is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations and the second is a table of annual maximum stage and discharge at crest-stage stations. All low-flow partial-record stations are also crest-stage stations.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1974

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Mystic River basin						
01187500	Haleys Brook near Old Mystic	Lat 41°23'20", long 71°59'11", at bridge on Packer Road, 1.2 miles west of Old Mystic.	4.37	1962-65 1967 1969-74	7-29-74	0.67
Thames River basin						
01119255	Delphi Brook near Staffordville	Lat 42°01'23", long 72°14'53", at bridge on State Highway 19, 2.1 miles northeast of Staffordville.	2.59	1962-74	7-25-74	1.8
01119300	Roaring Brook near Staffordville	Lat 41°59'05", long 72°13'48", at abandoned bridge beside Bradway Road, 1.7 miles east of Staffordville.	5.61	1960-74	7-26-74	.79
01119360	Conat Brook at West Willington	Lat 41°52'17", long 72°17'31", at bridge on Kola Road, 0.5 mile southeast of W. Willington.	2.40	1963-74	7-30-74	.94
01119820	Skungamaug River at N. Coventry	Lat 41°47'32", long 72°21'20", at bridge on State Highway 31, 1.0 mile southeast of N. Coventry.	24.7	*1962-64 1965-70 *1971-74	7-31-74	3.8
01120000	Hop River near Columbia	Lat 41°43'39", long 72°18'10", 1,500 ft downstream from Hop River village, near Columbia.	74.8	*1933-71 1972-74	4-30-74	95
01121300	Fenton River at East Willington	Lat 41°52'20", long 72°14'31", at bridge on U.S. Highway 44, at East Willington.	11.4	1961-74	7-30-74	1.7
01122680	Merrick Brook near Scotland	Lat 41°43'44", long 72°05'08", by Brook Street, 2.1 miles north of Scotland.	5.21	1964-74	7-29-74	.67
01125300	English Neighborhood Brook at North Woodstock.	Lat 41°59'27", long 71°59'51", at bridge on State Highway 93 at North Woodstock.	4.66	1961-74	7-26-74	.40
01125600	Mashamoquet Brook at Abington	Lat 41°52'27", long 72°00'35", at bridge on Taft Pond Road, 1 mile north of Abington.	11.1	1961-62 *1963 1964-74	7-31-74	1.0
01125650	Wappoquia Brook near Pomfret	Lat 41°51'57", long 71°57'30", at bridge on Day Road, 2 miles south of Pomfret	4.21	1961-74	7-31-74	.14
01125900	Cady Brook at East Putnam	Lat 41°54'32", long 71°49'11", at bridge on East Putnam Road, 0.3 mile south of East Putnam.	8.29	1961-74	7-26-74	1.5

*Continuous-record station

Discharge measurements made at low-flow partial-record stations during water year 1974

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		Thames River basin--Continued				
01126500	Moosup River at Moosup	Lat 41°42'37", long 71°53'11", at Kaman Aircraft Corp. at Moosup.	83.6	*1933-71 1972-74	7-12-74	21
01126700	Kitt Brook near Canterbury	Lat 41°40'50", long 71°58'42", at bridge on Mudhole (Elmdale) Road, 1.2 miles south of Canterbury.	11.1	1961-74	7-29-74	1.3
01127100	Broad Brook near Preston City	Lat 41°33'14", long 71°58'15", at bridge on State Highway 164, 1.8 miles north of Preston City.	12.5	1961-65 1967-74	7-29-74	1.8
01127400	Susquetonscut Brook at Yantic	Lat 41°34'15", long 72°08'01", at bridge on State Highway 87, 1 mile northwest of Yantic.	15.7	1961-74	7-29-74	1.6
01127760	Hunts Brook at Quaker Hill	Lat 41°24'04", long 72°07'16", at bridge on Old Norwich Road, at Quaker Hill.	11.5	1964-74	7-26-74	5.4
		Fourmile River basin				
01127800	Fourmile River near East Lyme	Lat 41°21'25", long 72°15'40", at bridge on Stones Ranch Road, 2.5 miles west of East Lyme.	4.30	1961-74	7-26-74 7-31-74	1.6 1.3
		Connecticut River basin				
01183990	Jawbuck Brook near Hazardville	Lat 42°00'24", long 72°33'14", at culvert on Shaker Road, 1.5 miles north of Hazardville.	2.16	1963-74	7-29-74	1.8
01184100	Stony Brook near West Suffield	Lat 41°57'38", long 72°42'39", at bridge on South Grand Street, 2.1 miles south of West Suffield.	10.2	1960-74	7-29-74	.50
01184260	Namerick Brook near Warehouse Point	Lat 41°54'13", long 72°36'47", at bridge on U.S. Highway 5, 1.7 miles south of Warehouse Point.	2.60	1963-74	7-29-74	.19
01184300	Gillette Brook at Somers	Lat 41°59'30", long 72°26'05", at twin culverts on Battle Street, 0.7 mile northeast of Somers.	3.64	1960-67 *1968-69 1970-74	7-29-74	.52
01184500	Scantic River at Broad Brook	Lat 41°54'42", long 72°33'48", upstream from bridge on State Highway 191, at Broad Brook.	98.2	*1929-71 1972-74	8-27-73 7-29-74	43 (rev.) 52
01188100	Roaring Brook at Unionville	Lat 41°45'24", long 72°52'59", at bridge on State Highway 4, at Unionville.	7.60	1961-74	8-9-74	4.0
01190050	Podunk River at Wapping	Lat 41°49'36", long 72°33'52", at bridge on State Highway 30, 0.5 mile west of Wapping.	4.34	1961-74	7-31-74	3.4
01190100	Piper Brook at Newington Junction	Lat 41°42'43", long 72°44'15", at bridge on Willard Avenue at Newington Junction.	14.6	*1959-71 1972-74	7-25-74	22
01190200	Mill Brook at Newington	Lat 41°42'16", long 72°43'34", at bridge on Dowd Street, 0.5 mile north of Newington.	2.65	*1959-71 1972-74	6-18-74 7-25-74	1.6 2.8
01191900	Charter Brook near Crystal Lake	Lat 41°54'22", long 72°24'15", at bridge on Browns Bridge Road, 2 miles southwest of Crystal Lake.	8.51	1961-74	7-29-74	2.4
01192800	Parmalee Brook near Durham	Lat 41°27'08", long 72°42'08", at bridge on Sawmill Road, 2 miles southwest of Durham.	2.79	1961-74	6-5-74	1.6
01193120	Ponset Brook near Higganum	Lat 41°28'45", long 72°33'28", at bridge on Skinner Road, 1.2 miles south of Higganum.	5.72	1962-74	6-6-74	4.4

*Continuous-record station

Discharge measurements made at low-flow partial-record stations during water year 1974

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		Connecticut River basin--Continued				
01193250	Judd Brook near Colchester	Lat 41°35'55", long 72°21'12", at bridge on Colchester Road, 2 miles northwest of Colchester.	3.93	1962-74	7-26-74	1.1
01192650	Roaring Brook at Hopewell	Lat 41°39'50", long 72°34'55", at bridge on Matson Hill Road at Hopewell.	24.3	1962-71 1974	7-31-74	7.5
01193300	Blackledge River near Gilead	Lat 41°41'46", long 72°27'22", at bridge on State Highway 94, 3 miles west of Gilead, and 4 miles east of Buckingham.	6.75	1960-74	7-26-74	.65
01194000	Eightmile River at North Plain	Lat 41°26'30", long 72°20'00", at bridge on State Highway 82, at North Plain.	20.1	*1937-66 1967-74	8-1-74	2.6
		Mill River basin				
01196600	Willow Brook near Cheshire	Lat 41°27'35", long 72°55'06", at bridge on Mt. Sanford Road, at corner of Harrison Avenue, 2.5 miles south of Cheshire.	9.09	1961-69 1971-74	7-24-74	7.0
		Wepawaug River basin				
01196700	Wepawaug River at Milford	Lat 41°14'10", long 73°03'32", at bridge on Walnut Street, at Milford.	18.4	1962-74	7-31-74	1.9
		Housatonic River basin				
01198500	Blackberry River at Canaan	Lat 42°01'26", long 73°20'32", at bridge on U.S. Highway 44, at Canaan.	45.9	*1949-71 1972-74	5-9-74	54
01199150	Furnace Brook at Cornwall Bridge	Lat 41°49'06", long 73°22'11", at bridge on State Highway 4, 0.2 mile from mouth, at Cornwall Bridge.	13.3	1961-74	6-22-74	4.7
01201510	Still River at Lanesville	Lat 41°32'12", long 73°25'04", 0.9 mile upstream from mouth, at Lanesville.	69.6	a1931-66 *1967-71 1972-74	9-18-73 7-23-74	12 (rev.) 30
01201890	Pond Brook near Hawleyville	Lat 41°27'22", long 73°20'07", at bridge on Pond Brook Road, 2 miles northeast of Hawleyville.	11.9	1963-74	7-23-74	1.2
01202700	Butternut Brook near Litchfield	Lat 41°44'35", long 73°13'14", at bridge on Ripley Road, 1.5 miles west of Litchfield.	2.42	1960-63 1965-74	7-29-74	.88
01203000	Shepaug River near Roxbury	Lat 41°32'59", long 73°19'49", at Wellers Bridge, 1.2 miles southwest of Roxbury.	132	*1931-71 1972-74	7-23-74 9-17-74	20 40
01203100	Jacks Brook near Roxbury Falls	Lat 41°31'39", long 73°18'32", at bridge on River Road, 1.2 miles north of Roxbury Falls.	7.90	1960-74	7-23-74	1.1
01203700	Wood Creek near Bethlehem	Lat 41°37'38", long 73°13'34", at bridge on State Highway 132, 1.2 miles southwest of Bethlehem.	3.39	1961-74	7-29-74	1.6
01206400	Leadmine Brook near Harwinton	Lat 41°43'46", long 23°03'13", at bridge on South Road, 3.0 miles south of Harwinton.	19.6	*1959-73 1974	6-26-74	8.8

*Continuous-record station

a Continuous-record station at former site 01201500, 2 miles upstream; drainage area 67.5 sq mi.

Discharge measurements made at low-flow partial-record stations during water year 1974

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Housatonic River basin--Continued						
01208100	Hancock Brook near Terryville	Lat 41°39'40", long 73°00'12", at bridge on Waterbury Road, at corner of South Main Street, 1.1 mile south of Terryville.	1.18	1960-74	7-29-74	0.24
01208400	Hop Brook near Middlebury	Lat 41°31'25", long 73°05'38", at bridge on Shaddock Road, 1.5 miles east of Middlebury.	9.43	1961-74	8-21-74	1.1
01208700	Little River at Oxford	Lat 41°26'03", long 73°07'03", at bridge on Governor Hill Road, at Oxford.	4.54	1961-69 1971-74	7-24-74	.31
Pequonnock River basin						
01208850	Pequonnock River at Trumbull	Lat 41°14'49", long 73°11'52", at bridge on Daniels Farm Road at Trumbull, 4.6 miles north of Bridgeport.	b11.8	1962-64 *1965-66 1967-74	7-19-74	2.2
Mill River basin						
01208900	Patterson Brook near Easton	Lat 41°17'16", long 73°17'33", at culvert on State Highway 59, 2.5 miles north of Easton.	1.21	1961-65 1967-74	7-31-74	.14
Norwalk River basin						
01209600	Comstock Brook at North Wilton	Lat 41°12'45", long 73°27'31", at bridge on Nod Hill Road, at North Wilton.	3.53	1961-65 1967-74	7-30-74	.26
Fivemile River basin						
01209770	Fivemile River near Norwalk	Lat 41°06'02", long 73°27'18", at bridge on West Cedar Street, 1.8 miles west of Norwalk.	8.96	1962-74	7-30-74	2.5
Byram River basin						
01211700	East Branch Byram River at Round Hill	Lat 41°05'56", long 73°41'00", at bridge on John Street, 0.8 mile west of Round Hill.	1.69	1961-74	7-30-74	.82
01212100	East Branch Byram River at Riversville	Lat 41°03'39", long 73°40'31", at bridge on Riversville Road just downstream from Merritt Parkway, and 0.2 mile upstream from mouth.	c7.4	1961-62 *1963-69 1970-74	7-30-74	1.2

*Continuous-record station

b Effective drainage area; does not include 3.8 sq mi from which low flow is entirely diverted into Easton Reservoir.

c Effective drainage area only; does not include 3.7 sq mi from which entire flow is diverted into Putnam Lake.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined. Each station in this table is also a low-flow partial-record station, unless station number is preceded by reference mark "a".

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Mystic River basin					
01118750	Haleys Brook near Old Mystic	Lat 41°23'20", long 71°59'11", at bridge on Packer Road, 1.2 miles west of Old Mystic.	4.37	1962-74	12-21-73	3.10	67
		Thames River basin					
01119255	Delphi Brook near Staffordville	Lat 42°01'23", long 72°14'53", at bridge on State Highway 19, 2.1 miles northeast of Staffordville.	2.59	1964-74	12-21-73	2.07	310
01119300	Roaring Brook near Staffordville	Lat 41°59'05", long 72°13'48", at abandoned bridge beside Bradway Road, 1.7 miles east of Staffordville.	5.61	1960-74	12-21-73	3.67	370
01119360	Conat Brook at West Willington	Lat 41°52'17", long 72°17'31", at bridge on Kola Road, 0.5 mile southeast of West Willington.	2.40	1964-74	12-21-73	4.51	124
01119820	Skungamaug River at North Coventry	Lat 41°47'32", long 72°21'20", at bridge on State Highway 31, 1.0 mile southeast of North Coventry.	24.7	*1962-64 1965-74	12-21-73	4.21	1,800
01120000	Hop River near Columbia	Lat 41°43'39", long 72°18'10", 1,500 feet downstream from Hop River village near Columbia.	74.8	*1933-71 1972-74	2-3-73 12-21-73	13.9 14.6	4,600(rev.) 5,200
01121300	Fenton River at East Willington	Lat 41°52'20", long 72°14'31", at bridge on U.S. Highway 44, at East Willington.	11.4	1964-74	12-21-73	5.33	750
01122680	Merrick Brook near Scotland	Lat 41°43'44", long 72°05'08", by Brook Street, 2.1 miles north of Scotland.	5.21	1964-74	3-21-74	3.90	470
01125300	English Neighborhood Brook at North Woodstock	Lat 41°59'27", long 72°59'51", at bridge on State Highway 93, at North Woodstock.	4.66	1962-74	12-21-73	5.04	465
a01125490	Little River at Harrisville	Lat 41°55'39", long 71°55'50", at bridge on Tripp Road, half a mile east of Harrisville.	35.8	*1962-71 1972-74	12-21-73	6.38	970
01125600	Mashamoquet Brook at Abington	Lat 41°52'27", long 72°00'35", at bridge on Taft Pond Road, 1 mile north of Abington.	11.1	*1962-63 1964-74	12-21-73	4.17	480
01125650	Wappoquia Brook near Pomfret	Lat 41°51'57", long 71°57'30", at bridge on Day Road, 2 miles south of Pomfret.	4.21	1964-74	12-21-73	3.04	160
01125900	Cady Brook at East Putnam	Lat 41°54'32", long 71°49'11", at bridge on E. Putnam Road, 0.3 mile south of East Putnam.	8.29	1964-74	3-21-74	3.22	270
a01126000	Fivemile River at Killingly	Lat 41°50'14", long 71°53'09", at Pennsylvania Central railroad bridge 0.6 mile south of Killingly.	57.8	*1938-71 1972-74	3-22-74	4.43	749
01126500	Moosup River at Moosup	Lat 41°42'37", long 71°53'11", at Kaman Aircraft Corp. at Moosup.	83.6	*1933-71 1972-74	12-17-73	4.87	1,440

*Continuous-record station

a Not a low-flow partial-record station.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
		Thames River basin--Continued					
01126700	Kitt Brook near Canterbury	Lat 41°40'50", long 71°58'42", at bridge on Mudhole (Elmdale) Road, 1.2 miles south of Canterbury.	11.1	1964-74	3-21-74	2.95	270
01127100	Broad Brook near Preston City	Lat 41°33'14", long 71°58'15", at bridge on State Highway 164, 1.8 miles north of Preston City.	12.5	1961-74	3-21-74	3.12	240
01127400	Susquetonscut Brook at Yantic	Lat 41°34'15", long 72°08'01", at bridge on State Highway 87, 1 mile northwest of Yantic.	15.7	1962-74	3-21-74	4.96	540
01127760	Hunts Brook at Quaker Hill	Lat 41°24'04", long 72°07'16", at bridge on Old Norwich Road, at Quaker Hill.	11.5	1964-74	3-21-74	3.56	315
		Fourmile River basin					
01127800	Fourmile River near East Lyme	Lat 41°21'25", long 72°15'40", at bridge on Stones Ranch Road, 2.5 miles west of East Lyme.	4.30	1961-74	3-21-74	2.69	84
		Connecticut River basin					
01183990	Jawbuck Brook near Hazardville	Lat 42°00'24", long 72°33'14", at culvert on Shaker Road, 1.5 miles north of Hazardville.	2.16	1967-74	12-21-73	4.21	117
01184100	Stony Brook near West Suffield	Lat 41°57'38", long 72°42'39", at bridge on South Grand Street, 2.1 miles south of West Suffield.	10.2	1960-74	12-21-73	4.16	560
01184260	Namerick Brook near Warehouse Point	Lat 41°54'13", long 72°36'47", at bridge on U.S. Highway 5, 1.7 miles south of Warehouse Point.	2.60	1964-74	12-21-73	5.92	620
01184300	Gillette Brook at Somers	Lat 41°59'30", long 72°26'05", at twin culverts on Battle Street, 0.7 mile northeast of Somers.	3.64	1960-67 *1968-69 1970-74	12-21-73	4.89	215
01184500	Scantic River at Broad Brook	Lat 41°54'42", long 71°33'48", upstream from bridge on State Highway 191, at Broad Brook.	98.2	*1929-71 1972-74	12-22-73	9.82	1,710
01188100	Roaring Brook at Unionville	Lat 41°45'24", long 72°52'59", at bridge on State Highway 4, at Unionville.	7.60	1962-74	12-21-73	1.85	170
a01189200	Stratton Brook near Simsbury	Lat 41°52'12", long 72°49'29", at bridge on Farms Village Road, 400 feet upstream from mouth, and 1 mile west of Simsbury.	5.19	1964-66 *1967-71 1972-74	12-21-73	2.61	180
01190050	Podunk River at Wapping	Lat 41°49'36", long 72°33'52", at bridge on State Highway 30, 0.5 mile west of Wapping.	4.34	1962-74	3-21-74	4.49	110
01190100	Piper Brook at Newington Junction	Lat 41°42'43", long 72°44'15", at bridge on Willard AVenue at Newington Junction.	14.6	*1959-71 1972-74	12-21-73	8.27	1,350
01190200	Mill Brook at Newington	Lat 41°42'16", long 72°43'34", at bridge on Dowd Street, 0.5 mile north of Newington.	2.65	*1959-71 1972-74	3-21-74	6.13	320

*Continuous-record station

a Not a low-flow partial-record station

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Connecticut River basin--Continued							
01191900	Charter Brook near Crystal Lake	Lat 41°54'22", long 72°24'15", at bridge on Browns Bridge Road, 2 miles southwest of Crystal Lake.	8.51	1965-74	12-21-73	4.52	1,200
a01192500	Hockanum River near East Hartford	Lat 41°45'36", long 72°35'16", 0.2 mile upstream from bridge on Walnut Street near East Hartford.	73.4	*1920-71 1972-74	12-21-73	9.47	2,180
01192650	Roaring Brook at Hopewell	Lat 41°39'50", long 72°34'55", at bridge on Matson Mill Road at Hopewell.	24.3	*1961-71 1972-74	12-21-73	3.45	415
a01192700	Mattabesset River at East Berlin	Lat 41°37'08", long 72°42'48", at bridge on Berlin Street, at East Berlin.	46.5	*1962-71 1972-74	2-3-73 12-21-73	6.68 7.12	2,350(rev.) 2,610
01192800	Parmalee Brook near Durham	Lat 41°27'08", long 72°42'08", at bridge on Sawmill Road, 2 miles southwest of Durham.	2.70	1960-74	3-21-74	3.74	250
01193120	Ponset Brook near Higganum	Lat 41°28'45", long 72°33'28", at bridge on Skinner Road, 1.2 miles south of Higganum.	5.72	1962-74	12-21-73	3.93	430
01193250	Judd Brook near Colchester	Lat 41°35'55", long 72°21'12", at bridge on Colchester Road, 2 miles northwest of Colchester.	3.93	1962-74	12-21-73	3.93	280
01193300	Blackledge River near Gilead	Lat 41°41'46", long 72°27'22", at box culverts on State Highway 94, 3 miles west of Gilead, and 4 miles east of Buckingham.	6.75	1960-74	12-21-73	4.74	325
01194000	Eightmile River at North Plain	Lat 41°26'30", long 72°20'00", at bridge on State Highway 82, at North Plain.	20.1	*1937-66 1967-74	12-21-73	6.85	1,480
Quinnipiac River basin							
a01196580	Muddy River near North Haven	Lat 41°22'07", long 72°50'31", at bridge on Velvet Street, 2 miles southeast of North Haven.	18.0	*1963-73 1974	2-22-74	3.26	912
Mill River basin							
01196600	Willow Brook near Cheshire	Lat 41°27'35", long 72°55'06", at bridge on Mt. Sanford Road, at corner of Harrison Avenue, 2.5 miles south of Cheshire.	9.09	1960-74	12-21-73	4.68	240
Wepawaug River basin							
01196700	Wepawaug River at Milford	Lat 41°14'10", long 73°03"32", by bridge on Walnut Street, at Milford.	18.4	1962-74	3-21-74	5.45	810
Housatonic River basin							
01198500	Blackberry River at Canaan	Lat 42°01'26", long 73°20'32", at bridge on U.S. Highway 44, at Canaan.	45.9	*1950-71 1972-74	12-21-73	9.09	2,640
01199150	Furnace Brook at Cornwall Bridge	Lat 41°49'06", long 73°22'11", at bridge on State Highway 4, 0.2 mile from mouth at Cornwall Bridge.	13.5	1962-74	12-21-73	6.46	1,030
01201510	Still River at Lanesville	Lat 41°32'12", long 73°25'04", 0.9 mile upstream from mouth, at Lanesville.	69.6	b1931-66 *1967-71 1972-74	12-22-73	7.45	2,510

*Continuous-record station
a Not a low-flow partial-record station
b Continuous-record station at former site no. 01201500, 2 miles upstream

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Housatonic River basin--Continued							
01201890	Pond Brook near Hawleyville	Lat 41°27'22", long 73°20'07", at bridge on Pond Brook Road, 2 miles northeast of Hawleyville.	11.9	1963-74	12-21-73	6.85	1,800
01202700	Butternut Brook near Litchfield	Lat 41°44'35", long 73°13'14", at bridge on Ripley Road, 1.5 miles west of Litchfield.	2.42	1960-74	12-21-73	6.79	560
01203000	Shepaug River near Roxbury	Lat 41°32'59", long 73°19'49", at Wellers Bridge, 1.2 miles southwest of Roxbury.	132	*1930-71 1972-74	12-21-73	8.10	4,260
01203100	Jacks Brook near Roxbury Falls	Lat 41°31'39", long 73°18'32", at bridge on River Road, 1.2 miles north of Roxbury Falls.	7.90	1961-74	12-21-73	5.17	1,100
a01203510	Pootatuck River at Sandy Hook	Lat 41°25'13", long 73°16'58", at bridge on Maple Street, at Sandy Hook.	24.8	*1966-73 1974	12-21-73	7.17	1,540
01203700	Wood Creek near Bethlehem	Lat 41°37'38", long 73°13'34", at bridge on State Highway 132, 1.2 miles southwest of Bethlehem.	3.39	1962-74	12-21-73	3.90	540
01206400	Leadmine Brook near Harwinton	Lat 41°43'46", long 73°03'13", at bridge on South Road, 3.0 miles south of Harwinton.	19.6	*1959-73 1974	12-21-73	8.60	1,720
01208100	Hancock Brook near Terryville	Lat 41°39'40", long 73°00'12", at bridge on Waterbury Road, at corner of South Main Street, 1.1 miles south of Terryville.	1.18	1960-74	2-2-73 12-21-73	3.47 3.99	140(rev.) 173
01208400	Hop Brook near Middlebury	Lat 41°31'25", long 73°05'38", bridge on Shaddock Road, 1.5 miles east of Middlebury.	9.43	1962-74	12-21-73	4.98	600
01208700	Little River at Oxford	Lat 41°26'03", long 73°07'03", at bridge on Governor Hill Road, at Oxford.	4.54	1960-74	12-21-73	4.50	280
Pequonnock River basin							
01208850	Pequonnock River at Trumbull	Lat 41°14'49", long 73°11'52", at bridge on Daniels Farm Road, at Trumbull	c15.6	1962-64 *1965-66 1967-74	12-21-73	4.49	770
Mill River basin							
01208900	Patterson Brook near Easton	Lat 41°17'16", long 73°17'33", at culvert on State Highway 59, 2.5 miles north of Easton.	1.21	1960-74	12-21-73	5.12	64
Norwalk River basin							
01209600	Comstock Brook at North Wilton	Lat 41°12'45", long 73°27'31", at bridge on Nod Hill Road, at North Wilton.	3.53	1960-74	12-21-73	4.15	290
Fivemile River basin							
01209770	Fivemile River near Norwalk	Lat 41°06'02", long 73°27'18", at bridge on West Cedar Street, 1.8 miles west of Norwalk.	8.96	1962-74	12-21-73	4.01	620

*Continuous-record station

a Not a low-flow partial-record station

c Includes 3.8 sq mi from which a portion of the flow is diverted into Easton Reservoir

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Byram River basin					
01211700	East Branch Byram River at Round Hill	Lat 41°05'56", long 73°41'00", at bridge on John Street, 0.8 mile west of Round Hill.	1.69	1960-74	12-21-73	3.96	225
01212100	East Branch Byram River at Riversville	Lat 41°03'39", long 73°40'31", at bridge on Riversville Road just downstream from Merritt Parkway, 0.2 mile upstream from mouth.	d11.1	*1963-69 1970-74	12-21-73	6.08	910

---

*Continuous-record station

d Includes 3.7 sq mi from which a portion of the flow is diverted into Putnam Lake

TIME OF TRAVEL STUDIES

The time needed to move water and waterborne materials from point to point in a stream, for steady or gradually varied flow conditions, is called the time of travel between those points. Time of travel can be measured by floats, by analyzing stream velocities at selected cross sections, and by tracking various chemicals. The method used in these studies was a chemical-tracking method using fluorescent dye. The method required injecting fluorescent dye into a stream and sampling at a downstream point until the slug of dye had passed. The time necessary for the peak concentration of the dye to pass from the point of injection to the point of sampling was considered the travel time between the points. The studies were made at the request of State Department of Environmental Protection, Water Compliance Unit.

CONNECTICUT RIVER BASIN

South Branch Park River Time of Travel Study

August 27, 1974

Stream Reach	Length (miles)	Discharge (cubic feet per second)	Travel Time (hours)	Average Velocity (feet per second)
New Britain Avenue at West Hartford to Newfield Avenue at Hartford	0.6	11	2	0.4
Newfield Avenue at Hartford to Hamilton Street at Hartford	1.7	--	7	.4
Hamilton Street at Hartford to Laurel Street at Hartford	.5	--	3	.2
Total	2.8	--	12	0.3

North Branch Park River Time of Travel Study

August 26-29, 1974

Stream Reach	Length (miles)	Discharge (cubic feet per second)	Travel Time (hours)	Average Velocity (feet per second)
Portage Street at West Hartford to University of Hartford bridge	1.3	--	11	0.2
University of Hartford bridge to Albany Avenue at Hartford	1.4	3.2	13	.2
Albany Avenue at Hartford to Asylum Avenue at Hartford	1.6	--	24	.1
Asylum Avenue at Hartford to Laurel Street at Hartford	1.3	--	19	.1
Total	5.6	--	67	0.2

Park River Time of Travel Study

August 26, 1974

Stream Reach	Length (miles)	Discharge (cubic feet per second)	Travel Time (hours)	Average Velocity (feet per second)
Laurel Street at Hartford to Broad Street at Hartford	0.8	--	4	0.3

QUINNIPIAC RIVER BASIN

Quinnipiac River Time of Travel Study

August 16-27, 1971

Stream Reach	Length (miles)	Discharge (cubic feet per second)	Travel Time (hours)	Average Velocity (feet per second)
Milford Street at Plainville to Marion Avenue at Plantsville	8.0	1.1	59	0.2
Marion Avenue at Plantsville to Old Turnpike Road at Milldale	2.0	8.8	5	.6
Old Turnpike Road at Milldale to Cheshire Street near Meriden	5.0	--	22	.3
Cheshire Street near Meriden to Oregon Road at South Meriden	1.6	40	11	.2
Oregon Road at South Meriden to Main Street at South Meriden	1.0	--	55	.03
Main Street at South Meriden to Church Street at Yalesville	2.7	50	8	.5

QUINNIPIAC RIVER BASIN--Continued

Quinnipiac River Time of Travel Study

August 16-27, 1971

Stream Reach	Length (miles)	Discharge (cubic feet per second)	Travel Time (hours)	Average Velocity (feet per second)
Church Street at Yalesville to Wilbur Cross Parkway near Wallingford	1.2	--	5	.6
Wilbur Cross Parkway near Wallingford to Quinnipiac Street at Wallingford	1.6	--	24	.1
Quinnipiac Street at Wallingford to Tolles Road near Wallingford	2.4	70	6	.6
Tolles Road near Wallingford to State Highway 22 at North Haven	5.0	--	12	.6
Total	30.5	--	205	0.2

HOUSATONIC RIVER BASIN

Still River Time of Travel Study

July 17-19, 1973

Stream Reach	Length (miles)	Discharge (cubic feet per second)	Travel Time (hours)	Average Velocity (feet per second)
Triangle Street at Danbury to Cross Street at Danbury	0.6	24	3/4	1.2
Cross Street at Danbury to Newtown Road at Danbury	.5	40	1/2	.9
Newtown Road at Danbury to Old Newtown Road at Danbury	.6	42	1	.9
Old Newtown Road at Danbury to Eagle Road at Danbury	.5	--	1	.7
Eagle Road at Danbury to Interstate Highway 84 at Danbury	.8	--	1 1/4	.9
Interstate Highway 84 at Danbury to Sand Cut Road near Brookfield Center	3.3	53	4 1/2	1.1
Sand Cut Road near Brookfield Center to State Highway 133 at Brookfield Center	1.9	60	5 1/2	.6
State Highway 133 at Brookfield Center to Silvermine Road at Brookfield Center	1.8	--	5 1/2	.6
Silvermine Road at Brookfield Center to State Highway 25 at Brookfield	1.2	--	5	.4
State Highway 25 at Brookfield to Aldrich Road near Brookfield	1.7	--	4 1/2	.6
Aldrich Road near Brookfield to Cross Road near Lanesville	2.5	--	6 1/2	.6
Cross Road near Lanesville to Harrybrooke Park Road at Lanesville	2.3	63	8	.4
Total	17.5	--	40	0.6

PART 2. WATER-QUALITY RECORDS

NORTH ATLANTIC SLOPE BASINS

PAWCATUCK RIVER BASIN

01118525 PAWCATUCK RIVER NEAR PAWCATUCK, CONN.

LOCATION.--Lat 41°19'37", long 72°50'59", New London County, at Graves Neck, 3 mi (5 km) south of Pawcatuck.

DRAINAGE AREA.--303 mi² (785 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DEPTH (FT)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JULY												
09...	1000	1.0	1.8	20	80	40	20	180	560	68	0	7400
09...	1010	8.0	1.2	40	180	40	20	280	970	117	0	13000
AUG.												
06...	1330	1.0	1.1	50	140	30	100	160	730	80	0	12000
06...	1350	10	.5	60	250	50	80	160	1100	117	0	17000
SEP.												
17...	1410	1.0	1.2	40	120	60	40	230	1000	105	0	15000
17...	1420	7.0	.9	50	120	50	30	240	1000	112	0	16000

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESI-DUE (MG/L)
JULY												
09...	1200	.06	.30	.39	.01	.25	.55	.56	2.5	15200	20.7	17600
09...	1900	.10	.21	.27	.01	.40	.61	.62	2.7	26100	35.5	31700
AUG.												
06...	1800	.11	.43	.55	.01	.23	.66	.67	3.0	22500	30.6	23100
06...	2200	.14	.15	.19	.01	.21	.36	.37	1.6	32100	43.7	38300
SEP.												
17...	930	.07	.17	.22	.04	.15	.32	.36	1.6	27500	37.4	39300
17...	1800	.07	.14	.18	.02	.23	.37	.39	1.7	29900	40.7	40600

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SALIN-ITY (PPT)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JULY											
09...	2800	2700	.3	56	0	.02	1	10	.0	17	18000
09...	4700	4600	1.9	96	0	.02	1	1	.0	26	28300
AUG.											
06...	3400	3300	.8	66	0	.03	3	4	.0	26	35500
06...	4900	4800	1.9	96	0	.03	3	2	.1	24	42600
SEP.											
17...	4700	4600	1.3	86	0	--	1	1	.0	24	34500
17...	4700	4600	1.4	92	0	--	1	1	.0	24	39000

DATE	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
09...	8.5	28.0	23.0	10.2	124	B100	B50	<10	16	37	4.3
09...	8.0	28.0	20.0	7.0	89	B150	B20	<10	5.0	15	3.7
AUG.											
06...	8.2	25.0	25.5	8.2	114	170	120	<1	15	1.0	4.7
06...	8.0	25.0	22.5	6.6	89	5	2	<1	9.0	3.0	2.2
SEP.											
17...	8.1	26.0	19.5	8.4	106	52	23	4	12	8.0	4.2
17...	8.1	26.0	19.0	7.7	97	9	3	4	8.0	3.0	7.9

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

THAMES RIVER BASIN

01119375 WILLIMANTIC RIVER AT MERROW, CONN.

LOCATION.--Lat 41°50'07", long 72°18'38", Tolland County, 0.3 mi (0.5 km) upstream from State Highway 195, 0.3 mi (0.5 km) upstream from State Highway 195, 0.7 mi (1.1 km) upstream from Merrow.

DRAINAGE AREA.--94.0 mi² (243.5 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY												
08...	1055	75	7.0	10	430	40	10	4.0	1.2	15	0	8.1
AUG.												
05...	0910	49	7.3	0	330	50	20	5.5	1.7	11	0	13
SEP.												
16...	0825	49	5.0	20	260	40	0	5.0	1.3	11	0	6.7

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY												
08...	9.7	.06	.58	.75	.22	.00	.51	.73	3.2	64	13.0	.09
AUG.												
05...	9.7	.11	.37	.48	.51	.09	.46	.97	4.3	71	9.39	.10
SEP.												
16...	3.8	.07	.37	.48	.23	.01	.38	.61	2.7	51	6.75	.07

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY											
08...	74	15	3	3.8	12	0	.00	1	50	.0	61
AUG.											
05...	83	21	12	2.8	9	0	.00	2	20	.0	89
SEP.											
16...	63	18	9	2.2	9	0	.01	1	30	.0	80

DATE	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
08...	6.6	28.5	22.5	9.0	103	3000	8300	1300	2.0	4.0	8.1
AUG.											
05...	6.8	23.0	23.0	8.6	99	19000	330	1900	7.5	1.5	6.0
SEP.											
16...	6.9	18.0	15.0	9.2	90	3000	430	110	4.5	2.0	6.3

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01122001 NATCHAUG RIVER AT WILLIMANTIC, CONN.

LOCATION.--Lat 41°43'10", long 72°11'46", Windham County, at bridge on U.S. Highway 6, at Willimantic.

DRAINAGE AREA.--171 mi² (443 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JULY												
08...	1325	90	5.5	10	390	40	10	6.0	1.7	23	0	8.0
AUG.												
05...	1140	36	6.1	10	360	330	60	9.0	2.6	23	0	8.9
SEP.												
16...	1050	187	6.9	10	270	40	20	6.4	1.6	13	0	6.8

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JULY												
08...	7.9	.02	.26	.33	.24	.07	.33	.57	2.5	55	13.4	.07
AUG.												
05...	9.3	.26	.50	.64	.22	.80	1.3	1.5	6.7	73	7.10	.10
SEP.												
16...	7.2	.02	.33	.43	.14	.02	.35	.49	2.2	64	32.3	.09

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JULY											
08...	64	22	3	2.3	19	0	.00	1	20	.0	70
AUG.											
05...	210	33	14	4.6	19	0	.01	24	10	.0	91
SEP.											
16...	61	23	12	1.3	11	0	.01	1	20	.0	71

DATE	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
08...	7.2	30.5	28.0	8.3	105	11000	140	1900	.7	3.7	5.6
AUG.											
05...	6.9	25.5	24.0	6.6	78	58000	1600	3400	9.0	1.0	6.5
SEP.											
16...	7.2	20.0	19.5	9.0	98	9500	380	110	13	4.0	6.1

01122500 SHETUCKET RIVER NEAR WILLIMANTIC, CONN.

LOCATION.--41°42'01", long 72°10'57", Windham County, at gaging station on right bank at downstream side of Bingham Bridge on Plains Road, 500 ft (150 m) upstream from Pennsylvania Central Company railroad bridge, 500 ft (150 m) downstream from Potash Brook, 1.3 mi (2.1 km) downstream from confluence of Willimantic and Natchaug Rivers, 1.5 mi (2.4 km) southeast of Willimantic, and 17 mi (27 km) upstream from mouth.

DRAINAGE AREA.--402 mi² (1,041 km²).

PERIOD OF RECORD.--Chemical analysis: October 1956 to September 1957, June 1968 to September 1974 (discontinued). Water temperatures: October 1956 to September 1957.

REMARKS.--Records of iron, specific conductance, and pH of daily samples for 1956-57 available in district office at Hartford, Conn.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.												
09...	1525	-	--	300	30	--	--	--	--	--	--	--
09...	1530	192	8.4	300	50	7.2	1.8	15	0	19	2.7	14
NOV.												
05...	1535	485	9.1	--	120	5.7	1.8	11	0	--	--	11
DEC.												
10...	1520	2230	6.7	--	20	4.0	1.5	7	0	--	--	7.7
JAN.												
14...	1530	980	8.1	80	40	5.7	1.8	11	0	--	--	9.8
FEB.												
11...	1540	840	7.8	170	50	5.9	1.6	11	0	--	--	11
MAR.												
11...	1440	735	7.0	200	60	4.8	1.5	11	0	--	--	9.4
APR.												
16...	1510	2200	6.3	120	30	4.0	1.1	11	0	--	--	7.6
MAY												
13...	1525	1700	4.9	170	30	4.7	1.3	12	0	--	--	7.0
JUNE												
10...	1515	224	7.4	400	30	6.5	1.6	14	0	--	--	12
SEP.												
24...	1620	740	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOL-VED SUL-FIDE (S) (MG/L)	TOTAL SUL-FIDE (S) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	TOTAL HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)
OCT.												
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	33	--	--	.2	.33	1.0	--	--	--	--	--	.49
NOV.												
05...	14	--	--	--	.17	.52	.15	.13	.40	--	--	.37
DEC.												
10...	10	.0	--	--	.06	.18	.05	.02	.07	--	--	.19
JAN.												
14...	12	.0	--	--	.04	.25	.07	.04	.12	--	--	.18
FEB.												
11...	12	.0	--	--	.07	.21	.05	.05	.15	--	--	.19
MAR.												
11...	12	.1	--	--	.06	.18	.06	.04	.12	--	--	.32
APR.												
16...	9.7	--	.0	--	.20	--	.18	--	--	.16	.00	.30
MAY												
13...	9.5	--	.2	--	.04	--	.08	--	--	.02	.00	.11
JUNE												
10...	17	--	.6	--	.17	--	.15	--	--	.12	.00	.24
SEP.												
24...	--	--	--	--	--	--	--	--	--	--	--	--

01122500 SHETUCKET RIVER NEAR WILLIMANTIC, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
OCT.												
09...	.63	.57	.03	.60	.18	.59	1.2	5.3	--	94	88.7	.13
NOV.												
05...	.42	.34	.00	.35	.26	.63	.98	4.3	78	--	102	.11
DEC.												
10...	.26	.29	.01	.30	.28	.47	.77	3.4	48	--	285	.07
JAN.												
14...	.23	.49	.01	.50	.14	.32	.82	3.6	68	--	160	.09
FEB.												
11...	.24	.50	.00	.50	.14	.38	.88	3.9	63	--	143	.09
MAR.												
11...	.41	.42	.01	.43	.05	.37	.80	3.5	53	--	105	.07
APR.												
16...	.34	.25	.01	.26	.16	.46	.72	3.2	--	--	--	--
MAY												
13...	.14	.26	.01	.27	.33	.44	.71	3.1	--	--	--	--
JUNE												
19...	.31	.48	.05	.53	.60	.84	1.4	6.1	--	--	--	--

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TUR-BID-ITY (JTU)	COLOR (PLATI-NUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO
OCT.											
09...	25	13	6.0	12	--	0	2	--	--	59	1.6
NOV.											
05...	22	13	3.5	9	--	0	2	15	14	--	--
DEC.											
10...	18	10	2.2	8	.00	--	1	33	16	--	--
JAN.											
14...	22	13	4.4	9	.01	1	1	18	8	--	--
FEB.											
11...	21	12	3.5	9	.00	0	1	4	7	--	--
MAR.											
11...	18	9	2.8	9	.00	0	1	5	8	--	--
APR.											
16...	15	6	4.8	9	.01	1	1	8	16	--	--
MAY											
13...	17	7	1.2	10	.01	1	1	20	19	--	--
JUNE											
19...	23	11	4.5	11	.01	0	1	20	14	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.											
09...	154	6.6	25.0	15.0	7.4	74	8000	3500	1200	5.2	6.5
NOV.											
05...	128	6.7	8.0	8.0	10.4	87	4200	3500	1300	4.0	10
DEC.											
10...	71	6.7	8.0	6.5	11.0	89	3000	950	2600	2.5	3.5
JAN.											
14...	118	6.6	-1.0	1.0	10.5	74	12000	7100	4100	2.5	6.0
FEB.											
11...	94	6.7	1.5	1.5	12.7	91	22000	12000	2400	3.0	3.0
MAR.											
11...	90	6.4	4.0	5.0	11.0	86	140000	8400	1300	--	--
APR.											
16...	71	6.3	14.5	10.0	10.0	87	43000	1300	500	--	--
MAY											
13...	76	7.2	18.0	12.0	9.8	91	4000	2000	1800	--	--
JUNE											
19...	86	6.7	38.0	26.0	7.1	88	625	100	78	--	4.7
SEP.											
24...	85	7.4	13.0	15.0	10.2	100	K170000	K18700	K3200	--	--

01122500 SHETUCKET RIVER NEAR WILLIMANTIC, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)
OCT.											
09...	40	0	<2	140	2	2	--	<2	4	<1	<2
09...	--	--	--	--	--	--	0	--	0	--	--

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
OCT.											
09...	2	<2	<1	2	0	40	<2	<2	<1.0	4	<3
09...	--	0	--	--	--	--	--	--	--	20	--

01122500 SHETUCKET RIVER NEAR WILLIMANTIC, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)
OCT.												
09...	.00	.0	<.1	4	.00	.0	.00	.0	.00	.0	.00	3.9

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)
OCT.												
09...	.00	.0	.00	.0	.00	.0	.00	.0	0	0	.01	0

DATE	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	ISODRIN IN FILT. FRAC. (UG/L)
OCT.												
09...	.00	0	.00	0	<.01	.00	.00	.00	.00	.00	.00	.00

DATE	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	SED MAT. FALL DIAM. % FINER THAN .004 MM	SED MAT. FALL DIAM. % FINER THAN .062 MM	SED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	IN-ORGANIC CARBON IN SED MA-TERIAL (G/KG)	ORGANIC CARBON IN SED MA-TERIAL (C) (G/KG)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)
OCT.												
09...	.0	<5	1	1	57	130	7.0	.5	160	.0	2.6	0

DATE	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL STRON-TIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
OCT.												
09...	0	2	0	6	4200	10	470	.0	<2	0	2	139

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CONN.

LOCATION.--Lat 41°40'56", long 72°09'59", Windham County, at bridge on State Highway 203, at South Windham.

DRAINAGE AREA.--408 mi² (1,057 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY 08...	1515	240	6.5	10	330	50	0	6.7	1.6	21	0	9.6
AUG. 05...	1430	206	6.3	0	240	320	20	9.0	2.0	20	0	14
SEP. 18...	1255	290	7.4	10	290	20	20	6.5	1.5	14	0	8.8

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY 08...	11	.13	.53	.68	.38	.04	.57	.95	4.2	49	31.8	.07
AUG. 05...	13	.19	.39	.50	.63	.21	.60	1.2	5.6	76	42.3	.10
SEP. 18...	11	.10	.45	.58	.30	.10	.55	.85	3.8	85	66.6	.12

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY 08...	76	23	6	.8	17	0	.01	1	30	.0	77
AUG. 05...	97	31	14	.4	16	0	.00	2	4	.0	370
SEP. 18...	66	22	11	.6	11	0	.01	1	20	.0	92

DATE	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 08...	7.6	31.5	28.0	8.2	106	41700	850	220	1.0	4.0	5.8
AUG. 05...	7.4	30.0	27.0	8.6	106	9200	1600	170	6.0	2.0	6.3
SEP. 18...	7.6	22.0	21.0	9.7	108	3600	100	18	10	4.0	3.6

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.

LOCATION.--Lat 42°01'40", long 71°57'22", Worcester County, on right bank, 50 ft (15 m) upstream from bridge on State Highway 131, 0.2 mi (0.3 km) upstream from Massachusetts-Connecticut State line, 0.4 mi (0.6 km) upstream from gaging station at Quinebaug, Conn., and 2.0 mi (3.2 km) southwest of Dudley, Mass.

DRAINAGE AREA.--156 mi^2 (404 km^2) at gage at Quinebaug, Conn.

PERIOD OF RECORD.--Chemical analyses: October 1968 to current year (no winter record in water year 1974).
Water temperatures: October 1968 to current year (no winter record in water year 1974).
Prior to October 1971, published as "at Quinebaug, Conn."

EXTREMES.--1973-74:
Dissolved oxygen: Maximum not determined; minimum recorded, 0.4 mg/l Aug. 3.
Water temperatures: Maximum recorded, 28.5°C July 10, 14, 31, August 1, 4, 5, 6; minimum, probably freezing point on many days during winter period.

Period of record:
Specific conductance (1968-74): Maximum recorded, 393 micromhos Sept. 24, 1970; minimum, 56 micromhos Feb. 20, 1972.
pH (1968-74): Maximum, 9.0 July 13, 16, 1971; minimum, 4.9 July 18, 1970.
Dissolved oxygen (1968-74): Maximum, 19.6 mg/l Feb. 12, 1972; minimum, 0.4 mg/l Aug. 28, 1970, Aug. 3, 1974.
Water temperatures (1968-74): Maximum recorded, 32.5°C July 29, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--Figures of daily discharge for gaging station at Quinebaug, Conn. (station 01124000) are used for this site.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	137	128	132	172	155	167	---	---	---	---	---	---
2	150	134	143	173	112	156	---	---	---	---	---	---
3	146	131	138	154	110	137	---	---	---	---	---	---
4	134	121	126	160	134	153	---	---	---	---	---	---
5	123	115	119	---	---	---	---	---	---	---	---	---
6	124	111	117	---	---	---	---	---	---	---	---	---
7	117	111	114	---	---	---	---	---	---	---	---	---
8	115	110	112	---	---	---	---	---	---	---	---	---
9	116	111	114	---	---	---	---	---	---	---	---	---
10	121	110	117	---	---	---	---	---	---	---	---	---
11	136	117	129	---	---	---	---	---	---	---	---	---
12	136	125	133	---	---	---	---	---	---	---	---	---
13	136	126	131	---	---	---	---	---	---	---	---	---
14	135	126	132	---	---	---	---	---	---	---	---	---
15	136	130	135	---	---	---	---	---	---	---	---	---
16	143	133	138	---	---	---	---	---	---	---	---	---
17	148	140	142	---	---	---	---	---	---	---	---	---
18	156	150	151	---	---	---	---	---	---	---	---	---
19	160	155	158	---	---	---	---	---	---	---	---	---
20	172	153	160	---	---	---	---	---	---	---	---	---
21	158	144	150	---	---	---	---	---	---	---	---	---
22	157	147	154	---	---	---	---	---	---	---	---	---
23	158	146	151	---	---	---	---	---	---	---	---	---
24	156	149	153	---	---	---	---	---	---	---	---	---
25	160	154	158	---	---	---	---	---	---	---	---	---
26	178	147	163	---	---	---	---	---	---	---	---	---
27	154	143	149	---	---	---	---	---	---	---	---	---
28	155	149	152	---	---	---	---	---	---	---	---	---
29	167	151	161	---	---	---	---	---	---	---	---	---
30	165	144	158	---	---	---	---	---	---	---	---	---
31	166	147	152	---	---	---	---	---	---	---	---	---
MONTH	178	110	141	---	---	---	---	---	---	---	---	---

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	116	108	112
2	---	---	---	---	---	---	---	---	---	119	109	113
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	104	100	103
16	---	---	---	---	---	---	---	---	---	111	100	103
17	---	---	---	---	---	---	---	---	---	109	104	107
18	---	---	---	---	---	---	---	---	---	114	107	110
19	---	---	---	---	---	---	---	---	---	112	105	109
20	---	---	---	---	---	---	---	---	---	115	108	111
21	---	---	---	---	---	---	---	---	---	122	115	119
22	---	---	---	---	---	---	---	---	---	130	120	124
23	---	---	---	---	---	---	---	---	---	141	120	125
24	---	---	---	---	---	---	---	---	---	149	122	132
25	---	---	---	---	---	---	---	---	---	134	127	130
26	---	---	---	---	---	---	---	---	---	125	116	120
27	---	---	---	---	---	---	---	---	---	118	112	115
28	---	---	---	---	---	---	---	---	---	120	112	115
29	---	---	---	---	---	---	---	---	---	120	111	117
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	126	120	123
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	131	120	125	149	139	143	191	180	186	---	---	---
2	122	111	116	154	137	146	226	180	206	---	---	---
3	128	112	116	154	143	149	230	215	220	---	---	---
4	125	116	122	146	135	140	219	199	208	---	---	---
5	128	115	120	156	145	150	202	159	180	---	---	---
6	125	116	121	145	127	137	178	173	175	---	---	---
7	125	118	122	142	135	138	---	---	---	---	---	---
8	144	124	138	138	133	136	---	---	---	---	---	---
9	143	135	140	139	132	136	177	173	175	---	---	---
10	---	---	---	139	125	132	181	171	176	---	---	---
11	---	---	---	135	122	130	---	---	---	---	---	---
12	---	---	---	136	124	132	---	---	---	---	---	---
13	182	145	167	141	132	137	---	---	---	---	---	---
14	178	161	169	142	130	137	---	---	---	---	---	---
15	168	154	160	139	131	135	---	---	---	---	---	---
16	178	135	157	132	126	129	---	---	---	---	---	---
17	160	107	141	136	128	132	---	---	---	155	145	149
18	111	105	108	140	134	137	---	---	---	156	148	153
19	114	108	110	141	133	137	---	---	---	157	144	150
20	153	117	137	155	127	136	---	---	---	150	138	145
21	153	144	149	252	159	213	---	---	---	155	131	145
22	156	147	150	260	249	256	---	---	---	135	115	125
23	148	133	143	257	138	212	---	---	---	139	135	137
24	137	132	135	250	201	222	---	---	---	138	117	125
25	152	136	144	---	---	---	---	---	---	120	115	118
26	152	147	150	219	185	212	---	---	---	123	114	118
27	147	138	141	221	207	213	---	---	---	129	120	124
28	145	127	138	215	196	200	---	---	---	128	122	125
29	151	139	144	186	179	185	---	---	---	118	68	94
30	150	140	144	183	178	180	---	---	---	115	108	113
31	---	---	---	205	179	194	---	---	---	---	---	---
MONTH	182	105	139	260	122	182	---	---	---	---	---	---
YEAR	260	68	144									

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.7	6.8	6.4	6.2	6.3	---	---	---	---	---	---
2	6.8	6.6	6.7	6.4	6.1	6.3	---	---	---	---	---	---
3	6.9	6.7	6.8	6.4	6.3	6.3	---	---	---	---	---	---
4	7.0	6.6	6.8	6.4	6.3	6.3	---	---	---	---	---	---
5	6.7	6.6	6.6	---	---	---	---	---	---	---	---	---
6	6.9	6.6	6.8	---	---	---	---	---	---	---	---	---
7	7.0	6.8	6.9	---	---	---	---	---	---	---	---	---
8	7.1	6.8	6.9	---	---	---	---	---	---	---	---	---
9	7.1	6.9	7.0	---	---	---	---	---	---	---	---	---
10	7.0	6.7	6.9	---	---	---	---	---	---	---	---	---
11	7.0	6.2	6.6	---	---	---	---	---	---	---	---	---
12	7.0	6.7	6.8	---	---	---	---	---	---	---	---	---
13	7.0	6.6	6.8	---	---	---	---	---	---	---	---	---
14	7.1	6.7	6.9	---	---	---	---	---	---	---	---	---
15	7.1	6.7	6.9	---	---	---	---	---	---	---	---	---
16	7.0	6.7	6.9	---	---	---	---	---	---	---	---	---
17	7.0	6.8	6.9	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	6.7	6.5	6.6	---	---	---	---	---	---	---	---	---
20	[illegible]	[illegible]	6.6	---	---	---	---	---	---	---	---	---
21	6.7	6.4	6.5	---	---	---	---	---	---	---	---	---
22	6.7	6.5	6.6	---	---	---	---	---	---	---	---	---
23	6.8	6.5	6.6	---	---	---	---	---	---	---	---	---
24	6.7	6.5	6.6	---	---	---	---	---	---	---	---	---
25	6.6	6.4	6.4	---	---	---	---	---	---	---	---	---
26	6.6	6.2	6.4	---	---	---	---	---	---	---	---	---
27	6.4	6.2	6.3	---	---	---	---	---	---	---	---	---
28	6.3	6.0	6.2	---	---	---	---	---	---	---	---	---
29	6.3	6.1	6.1	---	---	---	---	---	---	---	---	---
30	6.5	6.3	6.4	---	---	---	---	---	---	---	---	---
31	6.5	6.3	6.4				---	---	---	---	---	---
MONTH	7.1	6.0	6.7	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	7.3	7.0	7.2
16	---	---	---	---	---	---	---	---	---	7.3	6.9	7.1
17	---	---	---	---	---	---	---	---	---	7.2	6.9	7.1
18	---	---	---	---	---	---	---	---	---	7.2	6.8	7.0
19	---	---	---	---	---	---	---	---	---	7.3	6.9	7.1
20	---	---	---	---	---	---	---	---	---	7.3	6.8	7.1
21	---	---	---	---	---	---	---	---	---	7.1	6.8	7.0
22	---	---	---	---	---	---	---	---	---	6.9	6.5	6.8
23	---	---	---	---	---	---	---	---	---	6.8	6.5	6.6
24	---	---	---	---	---	---	---	---	---	6.9	6.5	6.8
25	---	---	---	---	---	---	---	---	---	7.1	6.8	7.0
26	---	---	---	---	---	---	---	---	---	7.1	6.8	6.9
27	---	---	---	---	---	---	---	---	---	7.0	6.8	6.9
28	---	---	---	---	---	---	---	---	---	7.1	6.7	6.9
29				---	---	---	---	---	---	6.9	6.6	6.7
30				---	---	---	---	---	---	---	---	---
31				---	---	---				6.9	6.5	6.7
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	6.6	6.9	---	---	---	7.4	6.8	7.0	---	---	---
2	7.2	6.8	7.0	---	---	---	7.3	6.6	6.9	---	---	---
3	6.9	6.3	6.6	---	---	---	7.4	6.7	7.0	---	---	---
4	6.5	6.3	6.4	---	---	---	7.3	6.9	7.0	---	---	---
5	7.0	6.4	6.6	---	---	---	7.1	6.5	6.9	---	---	---
6	7.1	6.7	6.8	---	---	---	7.0	6.5	6.7	---	---	---
7	7.1	6.7	6.9	---	---	---	---	---	---	---	---	---
8	7.4	6.6	7.0	---	---	---	---	---	---	---	---	---
9	7.7	7.0	7.3	---	---	---	6.7	6.2	6.4	---	---	---
10	---	---	---	---	---	---	6.6	6.2	6.4	---	---	---
11	---	---	---	7.5	6.8	7.3	---	---	---	---	---	---
12	---	---	---	7.5	6.9	7.1	---	---	---	---	---	---
13	7.1	6.6	6.9	7.7	6.8	7.2	---	---	---	---	---	---
14	7.1	6.6	6.7	7.8	6.8	7.2	---	---	---	---	---	---
15	7.1	6.5	6.7	7.4	6.8	7.0	---	---	---	---	---	---
16	6.9	6.6	6.7	6.9	6.5	6.7	---	---	---	---	---	---
17	7.3	6.8	7.0	6.6	6.3	6.5	---	---	---	---	---	---
18	7.1	5.8	6.9	6.6	6.2	6.3	---	---	---	---	---	---
19	7.0	6.5	6.8	6.7	6.3	6.4	---	---	---	---	---	---
20	6.5	5.4	5.9	6.8	6.3	6.5	---	---	---	---	---	---
21	5.7	5.5	5.6	7.0	6.4	6.7	---	---	---	---	---	---
22	6.1	5.7	5.8	7.2	6.6	6.9	---	---	---	---	---	---
23	6.0	5.9	6.0	6.9	6.5	6.7	---	---	---	---	---	---
24	6.3	5.4	6.1	6.8	6.4	6.6	---	---	---	7.2	6.8	7.0
25	6.0	5.9	6.0	6.5	5.1	6.1	---	---	---	7.1	6.6	6.8
26	6.3	6.2	6.3	7.4	6.3	6.8	---	---	---	7.1	6.5	6.7
27	6.6	6.3	6.4	7.1	6.5	6.7	---	---	---	6.7	6.4	6.6
28	6.5	6.4	6.5	7.3	6.8	7.0	---	---	---	6.7	6.4	6.5
29	---	---	---	7.3	6.7	7.0	---	---	---	---	---	---
30	---	---	---	7.2	6.7	6.9	---	---	---	---	---	---
31	---	---	---	7.2	6.7	6.9	---	---	---	---	---	---
MONTH	7.7	5.4	6.6	---	---	---	---	---	---	---	---	---
YEAR	7.8	5.4	6.7									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.7	6.5	7.0	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	8.0	7.1	7.5	---	---	---	---	---	---	---	---	---
5	7.8	7.0	7.3	---	---	---	---	---	---	---	---	---
6	8.5	7.3	7.9	---	---	---	---	---	---	---	---	---
7	9.0	7.9	8.4	---	---	---	---	---	---	---	---	---
8	9.2	8.2	8.6	---	---	---	---	---	---	---	---	---
9	9.0	7.7	8.3	---	---	---	---	---	---	---	---	---
10	8.7	7.1	7.8	---	---	---	---	---	---	---	---	---
11	8.0	7.0	7.8	---	---	---	---	---	---	---	---	---
12	8.5	7.2	7.7	---	---	---	---	---	---	---	---	---
13	8.6	6.9	7.6	---	---	---	---	---	---	---	---	---
14	8.6	6.4	7.1	---	---	---	---	---	---	---	---	---
15	8.2	6.5	7.2	---	---	---	---	---	---	---	---	---
16	8.5	6.7	7.5	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
16	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
17	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
18	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
19	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
20	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
21	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
22	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
23	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
24	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
25	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
26	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
27	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
28	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
29	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
10	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
11	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
12	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
17	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
18	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
19	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
31	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
YEAR	[illegible]	[illegible]	[illegible]									

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--Continued

TEMPERATURE (DEG. C) IN WATER   WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	17.5	18.0	---	---	---	---	---	---	---	---	---
2	18.5	18.0	18.0	---	---	---	---	---	---	---	---	---
3	19.0	18.5	19.0	---	---	---	---	---	---	---	---	---
4	20.0	19.0	19.5	---	---	---	---	---	---	---	---	---
5	19.5	19.0	19.5	---	---	---	---	---	---	---	---	---
6	19.0	18.0	18.5	---	---	---	---	---	---	---	---	---
7	18.0	17.5	18.0	---	---	---	---	---	---	---	---	---
8	17.5	17.0	17.5	---	---	---	---	---	---	---	---	---
9	17.5	16.5	17.0	---	---	---	---	---	---	---	---	---
10	17.5	16.0	16.5	---	---	---	---	---	---	---	---	---
11	16.0	15.5	16.0	---	---	---	---	---	---	---	---	---
12	16.0	15.5	16.0	---	---	---	---	---	---	---	---	---
13	16.0	15.5	16.0	---	---	---	---	---	---	---	---	---
14	16.0	16.0	16.0	---	---	---	---	---	---	---	---	---
15	16.5	15.5	16.0	---	---	---	---	---	---	---	---	---
16	16.0	15.5	16.0	---	---	---	---	---	---	---	---	---
17	16.0	15.5	15.5	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---				---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	16.0	11.5	13.5
2	---	---	---	---	---	---	---	---	---	16.5	15.0	15.5
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	19.5	19.0	19.5
16	---	---	---	---	---	---	---	---	---	19.5	17.5	18.5
17	---	---	---	---	---	---	---	---	---	20.5	17.5	19.0
18	---	---	---	---	---	---	---	---	---	20.5	17.5	19.0
19	---	---	---	---	---	---	---	---	---	19.0	17.5	18.5
20	---	---	---	---	---	---	---	---	---	18.0	16.5	17.5
21	---	---	---	---	---	---	---	---	---	19.0	17.0	18.5
22	---	---	---	---	---	---	---	---	---	18.5	16.0	17.5
23	---	---	---	---	---	---	---	---	---	18.0	16.0	17.0
24	---	---	---	---	---	---	---	---	---	16.5	14.5	16.0
25	---	---	---	---	---	---	---	---	---	16.5	15.5	16.0
26	---	---	---	---	---	---	---	---	---	16.0	15.5	15.5
27	---	---	---	---	---	---	---	---	---	15.5	13.0	14.5
28	---	---	---	---	---	---	---	---	---	15.5	13.5	14.5
29	---	---	---	---	---	---	---	---	---	15.0	14.0	14.5
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---				18.0	17.5	18.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	18.0	18.0	24.5	21.5	23.0	28.0	24.5	26.5	---	---	---
2	18.5	18.0	18.0	25.5	22.0	23.5	28.5	24.5	26.5	---	---	---
3	20.0	17.5	19.0	25.0	23.5	24.0	29.0	25.0	27.0	---	---	---
4	21.5	19.5	20.5	27.0	24.0	25.0	28.5	26.0	27.0	---	---	---
5	22.5	20.5	21.5	26.5	24.5	25.0	28.5	25.0	27.0	---	---	---
6	23.5	22.0	22.5	25.5	24.0	24.5	28.5	25.0	26.5	---	---	---
7	23.5	21.0	22.0	25.5	24.0	25.0	---	---	---	---	---	---
8	24.0	21.0	22.5	26.5	25.0	26.0	---	---	---	---	---	---
9	25.5	22.0	23.5	27.5	28.0	27.0	24.5	23.0	23.5	---	---	---
10	---	---	---	28.5	26.5	27.5	25.0	21.5	23.0	---	---	---
11	---	---	---	28.0	25.5	27.0	---	---	---	---	---	---
12	---	---	---	27.5	24.5	25.5	---	---	---	---	---	---
13	24.5	22.0	23.5	28.0	24.5	26.0	---	---	---	---	---	---
14	25.0	20.5	22.5	28.5	25.0	26.5	---	---	---	---	---	---
15	24.5	20.5	22.0	27.5	25.0	26.0	---	---	---	---	---	---
16	22.5	21.5	22.0	27.0	25.0	26.0	---	---	---	---	---	---
17	22.5	21.0	21.5	27.5	24.0	25.5	---	---	---	21.5	20.5	21.0
18	23.5	22.0	23.0	26.5	24.0	25.0	---	---	---	21.5	20.0	20.5
19	23.5	22.0	23.0	27.0	24.5	25.5	---	---	---	21.0	20.0	20.5
20	24.0	22.5	23.0	26.0	23.5	24.5	---	---	---	21.5	19.5	20.5
21	23.5	22.5	23.0	27.0	22.5	24.5	---	---	---	20.0	19.0	19.5
22	25.0	22.0	23.5	26.5	22.5	24.5	---	---	---	18.5	17.5	18.0
23	23.0	21.5	22.0	26.0	23.0	24.5	---	---	---	17.5	16.5	17.0
24	23.0	21.0	22.0	25.0	22.5	23.5	---	---	---	16.0	15.0	15.5
25	22.0	20.0	21.5	25.5	22.5	24.0	---	---	---	15.5	14.5	15.0
26	20.5	20.0	20.5	26.5	22.5	24.5	---	---	---	16.0	15.0	15.5
27	20.5	19.5	20.0	26.0	23.5	24.5	---	---	---	16.0	15.0	15.5
28	21.5	19.0	20.0	25.5	24.0	24.5	---	---	---	16.5	15.5	16.0
29	22.0	20.5	21.0	26.0	24.0	25.0	---	---	---	16.5	16.0	16.5
30	24.0	20.5	22.0	26.5	24.0	25.0	---	---	---	16.5	15.5	15.5
31	---	---	---	28.5	24.5	26.0	---	---	---	---	---	---
MONTH	25.5	17.5	21.5	28.5	21.5	25.0	---	---	---	---	---	---
YEAR	28.5	11.5	21.0									

01125150 FRENCH RIVER AT MECHANICSVILLE, CONN.

LOCATION.--Lat 41°56'51", long 71°53'23", Windham County, at bridge on West Thompson Road, 0.5 mi (0.8 km) northeast of Mechanicsville.

DRAINAGE AREA.--107 mi² (277 km²).

PERIOD OF RECORD.--Chemical analyses: March to November 1962, July to September 1974.
Water temperatures: March to November 1962.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY 10...	0905	93	6.6	10	380	50	20	7.6	1.1	24	0	23
AUG. 07...	0850	23	6.9	0	300	<10	30	8.5	4.3	96	0	50
SEP. 18...	0810	56	4.2	10	200	60	20	8.1	3.6	36	1	29

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY 10...	13	.27	.68	.88	.49	.14	.82	1.3	5.8	102	25.6	.14
AUG. 07...	23	1.8	3.0	3.9	.19	.40	3.4	3.6	16	234	14.5	.32
SEP. 18...	18	.31	.85	1.1	.71	.47	1.3	2.0	8.9	131	19.7	.18

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY 10...	133	23	3	7.7	20	0	.02	1	30	.0	125
AUG. 07...	296	39	0	7.7	79	1	.01	6	40	.1	257
SEP. 18...	256	35	3	6.1	31	2	.01	3	20	.0	209

DATE	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 10...	6.7	26.5	25.0	5.5	65	B130000	320	7200	9.0	30	7.4
AUG. 07...	7.3	22.5	23.5	2.6	30	800000	130	130	48	1.2	15
SEP. 18...	7.0	18.0	18.0	3.7	39	28000	480	260	24	10	14

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01125200 QUINEBAUG RIVER AT PUTNAM, CONN.

LOCATION.--Lat 41°55'07", long 71°54'38", Windham County, at bridge on Bridge Street, at Putnam.

DRAINAGE AREA.--289 mi² (749 km²).

PERIOD OF RECORD.--Chemical analyses: January to June 1962, July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY 10...	1040	235	4.3	10	520	60	10	7.0	1.5	22	0	20
AUG. 07...	1035	55	4.7	0	400	160	10	9.5	2.2	48	0	27
SEP. 18...	1025	181	4.4	10	250	50	10	8.0	1.5	26	0	25

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY 10...	12	.20	.59	.76	.44	.17	.76	1.2	5.3	99	62.8	.13
AUG. 07...	19	.56	.71	.91	.44	.49	1.7	2.1	9.5	135	20.1	.18
SEP. 18...	16	.30	.58	.75	.50	.35	.93	1.4	6.3	114	55.7	.16

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY 10...	178	24	6	1.8	18	0	.00	1	20	.1	112
AUG. 07...	180	33	0	1.0	39	0	.00	10	3	.1	201
SEP. 18...	113	26	5	1.0	21	0	.01	3	20	.0	166

DATE	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 10...	7.3	29.0	29.0	7.8	100	880000	270	1100	10	26	6.7
AUG. 07...	7.9	23.5	25.0	9.0	107	110000	210	300	42	9.0	8.5
SEP. 18...	7.6	20.0	20.0	9.9	108	14000	240	100	22	6.0	12

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

01125720 QUINEBAUG RIVER AT POMFRET LANDING, CONN.

LOCATION.--Lat 41°50'57", long 71°55'17", Windham County, at bridge on State Highway 101, 0.7 mi (1.1 km) northwest of Rogers.

DRAINAGE AREA.--376 mi² (974 km²).

PERIOD OF RECORD.--Chemical analyses: April to November 1962, July to September 1974.
Water temperatures: April to November 1962.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY 10...	1300	215	4.4	0	410	110	20	7.7	1.8	23	0	20
AUG. 07...	1300	72	4.9	0	360	90	20	11	5.0	45	0	20
SEP. 18...	1255	156	4.4	10	260	50	20	8.5	2.0	27	0	19

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY 10...	13	.23	.52	.67	.42	.30	.82	1.2	5.5	70	40.6	.10
AUG. 07...	36	.54	.67	.86	.27	1.0	1.7	2.0	8.7	--	--	--
SEP. 18...	15	.30	.43	.55	.46	.28	.71	1.2	5.2	85	35.8	.12

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY 10...	92	27	8	1.8	19	0	.01	1	7	.0	112
AUG. 07...	152	48	11	.5	37	0	.00	12	20	.0	190
SEP. 18...	98	29	7	2.2	22	1	.01	3	20	.0	152

DATE	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 10...	7.3	33.5	31.0	7.4	99	B57000	230	770	21	56	7.7
AUG. 07...	8.2	23.5	25.0	14.2	169	25000	280	190	53	8.0	11
SEP. 18...	7.3	23.0	19.0	7.9	85	16000	270	150	23	9.0	11

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01127000 QUINEBAUG RIVER AT JEWETT CITY, CONN.

LOCATION.--Lat 41°35'52", long 71°59'05", New London County, at gaging station on left bank in rear of high school on Slater Avenue at Jewett City, 570 ft (174 m) downstream from outlet of canal from Wedgewood Mills at mouth of Pachaug River, 1,000 ft (305 m) downstream from railroad bridge and at mile 6.1 (9.8 km).

DRAINAGE AREA.--715 mi² (1,852 km²).

PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1956, June 1968 to September 1974.
Water temperatures: October 1955 to September 1956, October 1958 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.												
09...	1135	--	--	250	10	--	--	--	--	--	--	--
09...	1140	472	5.3	270	30	7.2	1.6	22	0	14	2.3	16
NOV.												
05...	1210	914	6.1	--	450	5.7	1.6	13	0	--	--	12
DEC.												
10...	1250	2140	5.9	--	130	5.3	1.5	15	0	--	--	11
JAN.												
14...	1235	1510	6.6	1200	240	5.5	1.5	11	0	--	--	9.9
FEB.												
11...	1230	1810	6.3	150	80	5.9	1.7	10	0	--	--	11
MAR.												
11...	1150	1410	5.6	190	50	6.0	1.3	13	0	--	--	10
APR.												
16...	1235	4700	4.9	140	50	4.5	1.0	9	0	--	--	9.5
MAY												
13...	1225	2760	3.5	300	50	6.2	1.4	13	0	--	--	11
JUNE												
10...	1145	175	3.3	380	40	6.1	1.4	10	0	--	--	11
JULY												
17...	1525	560	3.7	250	30	6.3	1.3	23	0	--	--	13
AUG.												
07...	1600	175	3.2	210	40	8.0	1.8	41	0	--	--	15
SEP.												
03...	0940	440	4.2	220	30	12	1.8	38	0	--	--	11

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOL-VED SUL-FIDE (S) (MG/L)	TOTAL SUL-FIDE (S) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.												
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	12	--	--	.3	.23	--	--	--	--	.46	.59	.24
NOV.												
05...	11	--	--	--	.22	.21	.18	--	--	.31	.40	.25
DEC.												
10...	11	.0	--	--	.14	.02	.07	--	--	.28	.36	.34
JAN.												
14...	12	.1	--	--	.07	.06	.04	--	--	.16	.21	.54
FEB.												
11...	10	.0	--	--	.07	.05	.05	--	--	.15	.19	.62
MAR.												
11...	11	.0	--	--	.06	.06	.04	--	--	.39	.50	.53
APR.												
16...	10	--	1.3	--	.10	.04	--	.04	.00	.35	.45	.35
MAY												
13...	9.8	--	.1	--	.14	.13	--	.05	.00	.14	.18	.37
JUNE												
10...	9.8	--	.4	--	.26	.23	--	.14	.00	.51	.66	.23
JULY												
10...	11	--	--	--	.20	--	--	--	--	.57	.73	--
AUG.												
07...	13	--	--	--	.30	--	--	--	--	1.0	1.3	--
SEP.												
03...	13	--	--	--	.32	--	--	--	--	1.2	1.5	--

01127000 QUINEBAUG RIVER AT JEWETT CITY, CONN.--Continued

EXTREMES.--1973-74:
Water temperatures: Maximum, 29.5°C July 10; minimum, freezing point on many days during December, January, and February.

Period of record:
Water temperatures: Maximum, 29.5°C Aug. 2, 1970, July 10, 1974; minimum, freezing point on many days during winter months.

REMARKS.--Records of iron, specific conductance, and pH of daily samples for 1955-56 available in district office at Hartford, Conn.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT. 09...	.01	.26	.50	.96	1.2	5.4	--	70	89.2	.10	--	25
NOV. 05...	.01	.26	.30	.61	.87	3.9	77	--	140	.10	--	21
DEC. 10...	.01	.36	.21	.49	.85	3.8	58	--	341	.08	--	19
JAN. 14...	.02	.56	.20	.36	.92	4.1	65	--	265	.09	--	20
FEB. 11...	.01	.63	.41	.56	1.2	5.3	58	--	252	.08	--	22
MAR. 11...	.01	.54	.10	.49	1.0	4.6	55	--	204	.07	--	18
APR. 16...	.01	.36	.04	.39	.75	3.3	--	--	--	--	--	15
MAY 13...	.02	.39	.45	.59	.98	4.3	--	--	--	--	--	21
JUNE 10...	.03	.26	.64	1.0	1.3	5.6	--	--	--	--	--	21
JULY 10...	--	.30	.34	.91	1.2	5.4	80	--	121	.11	80	21
AUG. 07...	--	.09	.30	1.3	1.4	6.2	84	--	39.7	.11	103	27
SEP. 03...	--	.45	.03	1.2	1.7	7.3	84	--	99.8	.11	80	37

DATE	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 09...	7	8.8	18	--	--	0	1	--	--	12	12
NOV. 05...	10	4.2	11	--	--	0	1	23	.0	14	15
DEC. 10...	7	4.8	12	--	.00	--	1	40	.0	5.5	5.5
JAN. 14...	11	8.8	9	--	.00	0	1	33	.0	5.0	5.0
FEB. 11...	14	4.0	8	--	.00	0	1	11	.0	3.5	3.5
MAR. 11...	7	8.3	11	--	.00	0	2	9	.0	--	--
APR. 16...	8	7.2	7	--	.00	0	1	10	.1	--	--
MAY 13...	11	4.2	11	--	.01	1	1	20	.0	--	--
JUNE 10...	13	4.0	8	--	.01	0	1	10	.0	--	--
JULY 10...	2	.6	19	0	.00	--	1	20	.0	--	7.3
AUG. 07...	0	.3	34	0	.00	--	7	10	.0	--	8.0
SEP. 03...	6	3.4	31	1	.01	--	7	30	.0	--	8.8

01127000 QUINEBAUG RIVER AT JEWETT CITY, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.												
09...	124	6.6	22.0	12.5	9.5	98	110000	16000	7500	--	--	--
NOV.												
05...	102	6.7	7.0	9.0	9.5	82	74000	10000	7400	--	--	24
DEC.												
18...	102	6.7	14.0	7.0	9.8	81	9700	2000	750	--	--	22
JAN.												
14...	132	6.3	-3.0	1.0	10.5	74	7900	3000	2900	--	--	12
FEB.												
11...	93	6.6	2.0	1.5	11.4	81	12000	8400	800	--	--	13
MAR.												
11...	43	6.4	5.0	5.5	10.6	82	14000	2500	180	--	--	12
APR.												
16...	75	6.3	16.5	11.0	7.5	68	6500	920	1200	--	--	14
MAY												
13...	82	6.7	15.5	13.0	10.2	97	8500	2900	2700	--	--	20
JUNE												
18...	80	6.3	32.0	23.5	7.5	88	7600	855	1000	--	--	20
JULY												
10...	82	7.8	31.5	29.5	8.0	104	10000	33	460	6.0	14	--
AUG.												
07...	134	8.4	21.0	27.5	8.2	102	400	<1	19	23	4.0	--
SEP.												
03...	138	7.2	16.5	20.5	7.4	81	160000	89000	2400	23	3.0	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)
OCT.											
09...	50	0	<2	36	2	2	--	<2	4	0	<2
09...	--	--	--	--	--	--	0	--	10	--	--
JULY											
10...	--	--	--	--	--	--	--	--	10	--	--
AUG.											
07...	--	--	--	--	--	--	--	--	0	--	--
SEP.											
03...	--	--	--	--	--	--	--	--	10	--	--

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
OCT.											
09...	1	<2	0	4	0	50	<2	<1	2.0	3	<3
09...	--	3	--	--	--	--	--	--	--	20	--
JULY											
10...	--	--	--	--	--	--	--	--	--	10	--
AUG.											
07...	--	--	--	--	--	--	--	--	--	30	--
SEP.											
03...	--	--	--	--	--	--	--	--	--	10	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01127000 QUINEBAUG RIVER AT JEWETT CITY, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)
OCT. 09...	.00	.0	.0	<1	.00	.1	.00	<.1	.00	.9	.00	.6

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM DE- POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE- POSITS (UG/KG)
OCT. 09...	.00	.0	.00	.0	.00	.0	.00	.0	0	0	.01	0

DATE	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE- POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE- POSITS (UG/KG)	DI- AZINON (UG/L)	ETHION (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	METHYL TRI- THION (UG/L)	PARA- THION (UG/L)	TRI- THION (UG/L)	PCB (UG/L)
OCT. 09...	.00	0	.02	0	<.01	.00	.00	.00	.00	.00	.00	.0

DATE	PCB IN BOTTOM DE- POSITS (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL PHOS- PHORUS IN BOT- TOM DE- POSITS (MG/KG)	TOTAL AMMONIA NITRO- GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITRO- GEN IN BOTTOM DEP. (MG/KG)	IN- ORGANIC CARBON IN BED MA- TERIAL (G/KG)	ORGANIC CARBON IN BED MA- TERIAL (C) (G/KG)	TOTAL ARSENIC IN BOTTOM DE- POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE- POSITS (UG/G)
OCT. 09...	10	1	5	24	330	3.4	.2	220	.1	1.5	0	2

DATE	TOTAL CHRO- MIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE- POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE- POSITS (UG/G)	TOTAL IRON IN BOTTOM DE- POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE- POSITS (UG/G)	TOTAL MANGA- NESE IN BOTTOM DE- POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE- POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE- POSITS (UG/G)	TOTAL SELE- NIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL STRON- TIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE- POSITS (UG/G)
OCT. 09...	14	0	23	11000	30	170	.0	10	0	10	50

01127000 QUINEBAUG RIVER AT JEWETT CITY, CONN.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	19.0	17.0	18.0
2	---	---	---	---	---	---	---	---	---	18.5	16.5	17.0
3	---	---	---	---	---	---	---	---	---	16.5	15.5	16.0
4	---	---	---	---	---	---	---	---	---	16.0	14.5	15.0
5	---	---	---	---	---	---	---	---	---	16.0	14.0	15.0
6	---	---	---	---	---	---	---	---	---	15.5	14.5	15.0
7	---	---	---	---	---	---	---	---	---	15.0	14.0	14.5
8	---	---	---	---	---	---	---	---	---	15.5	13.5	14.5
9	---	---	---	---	---	---	---	---	---	15.0	14.0	15.0
10	---	---	---	---	---	---	---	---	---	15.0	14.5	14.5
11	---	---	---	---	---	---	---	---	---	15.5	14.0	15.0
12	---	---	---	---	---	---	---	---	---	15.0	15.0	15.0
13	---	---	---	---	---	---	---	---	---	15.0	14.5	15.0
14	---	---	---	---	---	---	---	---	---	16.0	14.5	15.0
15	---	---	---	---	---	---	---	---	---	18.0	16.0	17.0
16	---	---	---	---	---	---	13.0	12.5	12.5	19.5	18.0	19.0
17	---	---	---	---	---	---	13.5	12.0	12.5	21.0	19.5	20.5
18	---	---	---	---	---	---	14.0	13.0	13.5	22.0	20.5	21.0
19	---	---	---	---	---	---	14.5	13.5	14.0	23.0	20.5	21.5
20	---	---	---	---	---	---	13.5	13.0	13.0	22.0	20.0	21.0
21	---	---	---	---	---	---	14.0	13.0	13.5	20.5	19.5	20.0
22	---	---	---	---	---	---	15.0	14.0	14.5	21.0	19.5	20.0
23	---	---	---	---	---	---	16.0	15.0	15.5	20.5	19.5	20.0
24	---	---	---	---	---	---	15.5	14.0	15.0	19.5	18.5	19.0
25	---	---	---	---	---	---	14.0	13.0	14.0	19.0	17.5	18.5
26	---	---	---	---	---	---	14.5	13.0	13.5	18.0	17.0	17.5
27	---	---	---	---	---	---	15.0	13.0	14.0	17.5	16.0	16.5
28	---	---	---	---	---	---	15.5	13.5	14.5	16.5	15.5	16.0
29	---	---	---	---	---	---	16.5	14.0	15.5	16.0	15.5	15.5
30	---	---	---	---	---	---	18.5	16.5	17.0	17.0	15.5	16.0
31	---	---	---	---	---	---	---	---	---	17.5	16.0	17.0
MONTH	---	---	---	---	---	---	---	---	---	23.0	13.5	17.0

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	17.0	18.0	---	---	---	---	---	---	---	---	---
2	19.0	16.0	17.5	---	---	---	---	---	---	---	---	---
3	20.0	17.5	18.5	---	---	---	---	---	---	---	---	---
4	20.5	18.5	19.0	---	---	---	---	---	---	---	---	---
5	21.0	18.5	20.0	---	---	---	---	---	---	---	---	---
6	23.0	20.5	22.0	---	---	---	---	---	---	---	---	---
7	23.0	20.5	21.5	---	---	---	---	---	---	---	---	---
8	23.0	20.5	21.5	---	---	---	---	---	---	---	---	---
9	24.5	20.5	22.0	---	---	---	---	---	---	---	---	---
10	24.5	22.0	23.0	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	18.5	17.0	17.5
28	---	---	---	---	---	---	---	---	---	19.0	17.0	17.5
29	---	---	---	---	---	---	---	---	---	18.5	17.0	17.5
30	---	---	---	---	---	---	---	---	---	19.0	18.0	18.5
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

ADDITIONAL WATER TEMPERATURE VALUES LISTED IN WATER QUALITY TABLES

01127500 YANTIC RIVER AT YANTIC, CONN.

LOCATION.--Lat 41°33'31", long 72°07'19", New London County, at gaging station on left bank at Yantic, 700 ft (213 m) downstream from stone-arch highway bridge, 1 mi (2 km) downstream from Susquetonscut Brook, and 4.8 mi (7.7 km) upstream from mouth.

DRAINAGE AREA.--90.0 mi² (233.1 km²).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1958, June 1968 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
04...	1355	--	--	330	25	--	--	--	--	--	--	--
30...	1600	26	9.4	240	40	9.5	2.9	24	0	6.7	2.8	12
NOV.												
05...	1350	120	8.4	--	470	7.0	1.7	14	0	--	--	10
DEC.												
10...	1415	680	5.9	--	0	5.2	1.5	9	0	--	--	7.8
JAN.												
14...	1405	310	6.9	100	40	7.2	1.7	13	0	--	--	9.5
FEB.												
11...	1420	160	6.7	120	40	7.2	1.6	11	0	--	--	9.3
MAR.												
11...	1325	143	6.3	60	30	6.5	1.5	10	0	--	--	8.9
APR.												
16...	1400	570	4.4	110	20	5.0	1.0	10	0	--	--	6.6
MAY												
13...	1355	400	5.1	150	40	6.5	1.3	14	0	--	--	6.5
JUNE												
10...	1405	32	7.2	360	20	8.5	1.6	16	0	--	--	11
JULY												
02...	1730	62	6.9	220	0	7.7	1.4	19	0	--	--	10
AUG.												
06...	1420	14	4.9	300	50	10	2.2	25	0	--	--	12
SEP.												
03...	1405	30	6.1	240	40	12	1.6	28	0	--	--	11

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	TOTAL SULFIDE (S) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.												
04...	--	--	--	--	--	--	--	--	--	--	--	--
30...	11	--	--	.4	.04	--	--	--	--	.05	.06	.45
NOV.												
05...	12	--	--	--	.05	.04	.03	--	--	.05	.06	.28
DEC.												
10...	10	.1	--	--	.03	.03	.01	--	--	.11	.14	.36
JAN.												
14...	11	.0	--	--	.01	.01	.00	--	--	.09	.12	.88
FEB.												
11...	10	.0	--	--	.01	.00	.01	--	--	.06	.08	.96
MAR.												
11...	11	.0	--	--	.02	.02	.01	--	--	.12	.15	.87
APR.												
16...	10	--	.0	--	.03	.04	--	.01	.00	.12	.15	.48
MAY												
13...	8.9	--	.2	--	.06	.05	--	.01	.00	.10	.13	.47
JUNE												
10...	10	--	.0	--	.09	.08	--	.05	.00	.16	.21	.60
JULY												
02...	11	--	--	--	.02	--	--	--	--	.30	.39	--
AUG.												
06...	13	--	--	--	.03	--	--	--	--	.21	.27	--
SEP.												
03...	12	--	--	--	.04	--	--	--	--	.29	.37	--

01127500 YANTIC RIVER AT YANTIC, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT.												
09...	.00	.46	.21	.26	.72	3.2	--	67	4.70	.09	--	36
NOV.												
04...	.00	.28	.22	.27	.55	2.4	73	--	23.7	.10	--	24
DEC.												
10...	.00	.36	.14	.29	.65	2.9	66	--	40.8	.09	--	19
JAN.												
14...	.01	.89	.25	.34	1.2	5.4	68	--	15.1	.09	--	25
FEB.												
11...	.00	.96	.22	.28	1.2	5.5	63	--	27.2	.09	--	25
MAR.												
11...	.01	.88	.05	.18	1.1	4.7	58	--	26.5	.08	--	22
APR.												
16...	.01	.49	.11	.23	.72	3.2	--	--	--	--	--	17
MAY												
13...	.01	.48	.34	.44	.92	4.1	--	--	--	--	--	22
JUNE												
10...	.01	.61	.33	.49	1.1	4.9	--	--	--	--	--	28
JULY												
08...	--	.38	.04	.34	.72	3.2	79	--	13.2	.11	79	25
AUG.												
05...	--	.32	.08	.21	.53	2.3	81	--	3.94	.11	239	35
SEP.												
03...	--	.39	.09	.23	.62	2.7	78	--	6.32	.11	76	37

DATE	NON-CARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.											
09...	16	4.8	20	--	--	0	1	--	--	5.3	17
NOV.											
04...	13	4.9	11	--	--	0	1	32	.0	4.0	11
DEC.											
10...	12	2.9	7	--	.00	--	1	40	.0	3.0	6.0
JAN.											
14...	14	4.3	11	--	.00	2	1	14	.0	3.5	5.0
FEB.											
11...	16	3.5	9	--	.00	0	1	4	.0	3.0	3.9
MAR.											
11...	14	2.5	8	--	.00	5	1	11	.0	--	--
APR.											
16...	9	2.5	8	--	.00	1	1	20	.0	--	4.6
MAY											
13...	11	3.6	11	--	.00	1	1	30	.0	--	--
JUNE											
10...	15	4.1	13	--	.01	0	1	20	.0	--	--
JULY											
08...	9	2.4	16	0	.00	--	1	30	.0	--	4.7
AUG.											
05...	14	.3	21	0	.00	--	2	5	.0	--	4.3
SEP.											
03...	14	1.6	23	0	.01	--	4	5	.0	--	4.4

01127500 YANTIC RIVER AT YANTIC, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.												
04...	117	6.9	24.5	12.5	7.4	86	1200	1000	100	--	--	--
NOV.												
05...	85	6.4	7.0	8.5	9.8	84	2200	420	82	--	--	17
DEC.												
10...	76	6.7	9.3	7.0	10.5	87	3000	1300	2100	--	--	16
JAN.												
14...	112	6.6	-1.3	1.0	11.6	82	160	79	38	--	--	7
FEB.												
11...	92	6.7	2.0	2.0	13.0	94	500	240	45	--	--	15
MAR.												
11...	87	6.8	7.0	5.0	11.8	92	20000	500	3	--	--	8
APR.												
16...	64	6.8	15.0	10.5	9.5	86	2300	160	80	--	--	12
MAY												
13...	60	6.6	15.5	12.5	9.5	90	14000	56000	3300	--	--	17
JUNE												
17...	84	6.5	30.5	20.0	8.8	96	76000	6600	1300	--	--	13
JULY												
08...	80	7.1	32.0	27.0	8.5	105	1100	380	880	.0	.0	--
AUG.												
05...	114	6.7	29.0	24.0	9.6	117	4300	630	310	3.0	.0	--
SEP.												
03...	110	7.4	21.0	19.0	9.7	99	14000	3400	2700	3.5	.0	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)
OCT.											
04...	67	0	<2	10	4	0	--	<2	2	0	<2
09...	--	--	--	--	--	--	0	--	0	--	--
JULY											
08...	--	--	--	--	--	--	--	--	0	--	--
AUG.											
05...	--	--	--	--	--	--	--	--	0	--	--
SEP.											
03...	--	--	--	--	--	--	--	--	0	--	--

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
OCT.											
04...	0	<2	0	<2	0	65	<2	3	<.7	7	<3
09...	--	2	--	--	--	--	--	--	--	20	--
JULY											
08...	--	--	--	--	--	--	--	--	--	10	--
AUG.											
05...	--	--	--	--	--	--	--	--	--	10	--
SEP.											
03...	--	--	--	--	--	--	--	--	--	10	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

01127500 YANTIC RIVER AT YANTIC, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)
OCT., 09...	.00	.0	.0	<1	.00	<.1	.00	.7	.00	.1	.02	<.1

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)
OCT., 09...	.00	.0	.00	.0	.00	.0	.00	.0	0	0	.01	0

DATE	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	PCB (UG/L)
OCT., 09...	.00	0	.00	0	.00	.00	.00	.00	.00	.00	.00	.0

DATE	PCB IN BOTTOM DE-POSITS (UG/KG)	SED. MAT. FALL DIAM. % FINER THAN .004 MM	SED. MAT. FALL DIAM. % FINER THAN .062 MM	SED. MAT. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL K.JEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	IN-ORGANIC CARBON IN BED MA-TERIAL (G/KG)	ORGANIC CARBON IN BED MA-TERIAL (G/KG)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)
OCT., 09...	17	2	3	36	190	7.6	.7	190	.0	6.6	1	0

DATE	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL STRON-TIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
OCT., 09...	6	5	5	5600	45	370	.0	6	10	5	17

01127701 THAMES RIVER NEAR MOHEGAN, CONN.

LOCATION.--Lat 41°28'54", long 72°04'32", New London County, at bridge on State Highway 2A, 1.3 mi (2.1 km) east of Mohegan.

DRAINAGE AREA.--1,382 mi² (3,579 km²).

PERIOD OF RECORD.--Chemical analyses: September 1963, July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DEPTH (FT)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JULY												
09...	1422	1.0	4.9	10	30	40	0	51	150	41	0	2300
09...	1510	20	1.5	40	220	100	30	330	1100	101	0	16000
AUG.												
06...	0950	1.0	1.5	10	130	30	40	58	180	45	0	2600
06...	1025	27	.6	40	340	140	50	180	960	114	0	14000
SEP.												
17...	0935	1.0	3.9	20	40	60	20	130	440	53	0	5100
17...	1000	24	1.4	40	40	60	30	230	900	111	0	15000

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESI-DUE (MG/L)
JULY												
09...	330	.11	.32	.41	.21	.49	.81	1.0	4.5	4370	5.94	45200
09...	2700	.13	.46	.59	.09	.20	.66	.75	3.3	31000	42.2	26100
AUG.												
06...	360	.20	.50	.64	.59	.60	1.1	1.2	5.3	5500	7.48	5500
06...	2100	.24	.52	.67	.02	.19	.71	.73	3.2	29400	40.0	31000
SEP.												
17...	410	.16	.34	.50	.26	.17	.56	.82	3.6	9720	13.2	11300
17...	1400	.11	.33	.43	.07	.22	.55	.62	2.7	28200	38.4	35900

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SALIN-ITY (PPT)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JULY											
09...	750	710	.1	36	0	.03	2	6	.0	5.0	6000
09...	5600	5300	8.1	43	0	.03	1	2	.0	22	22800
AUG.											
06...	890	850	.3	37	0	.03	8	4	.2	9.0	7500
06...	4400	4300	7.3	44	0	.03	4	2	.0	23	36500
SEP.											
17...	2100	2100	2.1	43	0	.00	1	6	.0	9.0	13000
17...	4600	4500	4.5	41	2	.00	1	1	.0	25	35200

DATE	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
09...	8.8	33.5	27.0	10.5	133	66000	6600	820	13	20	5.1
09...	7.3	33.5	17.0	1.4	19	B230	B30	B10	1.0	1.8	3.1
AUG.											
06...	8.6	25.0	25.0	8.4	105	29000	5800	71	60	5.0	6.5
06...	7.6	25.0	20.5	.4	5	270	44	1	9.0	2.0	2.0
SEP.											
17...	7.6	22.0	19.0	8.0	86	25000	4000	180	26	6.0	2.9
17...	7.6	22.0	20.0	3.0	37	540	B0	13	24	9.0	6.6

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.

LOCATION.--Lat 42°02'57", long 72°36'35", Hampden County, on right bank at Agawam, Mass., 1.4 mi (2.3 km) upstream from Massachusetts-Connecticut State line, and 4.5 mi (7.2 km) upstream from gaging station at Thompsonville, Conn.

DRAINAGE AREA.--9,661 mi² (25,022 km²) at gage at Thompsonville, Conn.

PERIOD OF RECORD.--Chemical analyses: January 1969 to September 1974.
Water temperatures: January 1969 to September 1974.
Prior to October 1971, published as 01184000 Connecticut River at Thompsonville, Conn.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	149	143	146	108	104	106	98	80	93	82	65	72
2	148	144	146	110	96	104	102	98	99	86	79	81
3	151	146	149	110	105	107	108	100	102	93	80	85
4	151	134	144	107	104	105	116	100	109	104	89	95
5	145	137	142	112	106	109	114	100	110	107	92	97
6	140	112	135	112	106	109	114	90	102	99	92	95
7	138	130	132	110	106	108	86	68	81	99	93	96
8	136	125	130	118	110	115	88	80	84	103	94	100
9	142	135	139	124	118	121	94	80	90	105	95	98
10	139	129	134	124	118	120	94	60	75	107	101	104
11	137	126	132	131	100	123	70	60	64	141	104	119
12	137	130	134	---	---	---	80	64	76	137	122	129
13	140	134	138	---	---	---	86	80	83	---	---	---
14	142	137	140	---	---	---	93	80	84	---	---	---
15	---	---	---	---	---	---	94	78	86	---	---	---
16	---	---	---	118	113	116	87	80	83	---	---	---
17	---	---	---	113	106	110	120	82	104	---	---	---
18	---	---	---	110	106	108	111	100	103	---	---	---
19	---	---	---	113	105	109	107	101	105	---	---	---
20	---	---	---	114	109	112	149	105	113	---	---	---
21	---	---	---	116	112	114	157	58	121	---	---	---
22	---	---	---	117	111	115	75	59	68	---	---	---
23	---	---	---	124	115	119	75	63	69	---	---	---
24	---	---	---	124	112	118	66	62	64	---	---	---
25	128	124	125	111	105	108	65	61	63	---	---	---
26	130	122	127	114	108	111	68	63	65	---	---	---
27	140	124	131	109	98	102	66	60	63	---	---	---
28	144	123	137	98	94	96	63	50	62	91	82	87
29	140	128	134	94	75	88	64	59	62	87	80	83
30	142	118	129	94	75	83	60	57	59	82	76	80
31	114	104	107	---	---	---	67	56	61	87	77	82
MONTH	---	---	---	131	75	109	157	56	84	---	---	---

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

EXTREMES.--1973-74:
Specific conductance: Maximum, 180 micromhos Aug. 26; minimum, 56 micromhos Dec. 31.
pH: Maximum, 9.0 Aug. 16; minimum, 6.0 Apr. 5, 9.
Dissolved oxygen: Maximum recorded, 14.2 mg/l Jan. 6; minimum, 5.7 mg/l Sept. 14.
Water temperatures: Maximum recorded, 27.5°C Aug. 11, 13, 15, 16, 19, 21, 25; minimum, freezing point on several days during winter period.

Period of record:
Specific conductance: Maximum, 268 micromhos Feb. 3, 1973; minimum, 49 micromhos Apr. 23, 1969.
pH: Maximum, 9.7 Aug. 9, 1970; minimum, 5.8 Oct. 26, 1971.
Dissolved oxygen: Maximum, 15.9 mg/l Feb. 17, 1971; minimum, 1.0 mg/l Aug. 20, 1971.
Water temperatures: Maximum, 31.5°C Aug. 16, 1970; minimum, freezing point on several days during winter periods.

REMARKS.--Figures of daily discharge for gaging station at Thompsonville, Conn. (station 01184000) are used for this site. Samples for previously published monthly chemical analyses were taken at gaging station station at Thompsonville.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	87	83	85	---	---	---	108	104	107	86	81	85
2	93	85	88	---	---	---	109	105	107	81	78	80
3	---	---	---	---	---	---	106	98	103	80	75	77
4	---	---	---	---	---	---	99	84	91	78	75	76
5	---	---	---	---	---	---	87	81	84	75	72	73
6	---	---	---	88	84	86	87	79	84	---	---	---
7	---	---	---	90	82	86	84	76	78	---	---	---
8	---	---	---	95	85	91	80	73	75	---	---	---
9	---	---	---	88	83	86	76	73	75	---	---	---
10	---	---	---	90	83	86	84	75	78	91	86	89
11	---	---	---	89	85	87	80	76	78	90	79	83
12	---	---	---	95	85	90	84	78	81	91	77	84
13	---	---	---	99	91	94	86	81	84	81	58	68
14	---	---	---	104	98	101	85	80	82	67	59	64
15	---	---	---	107	102	104	86	71	74	76	66	70
16	---	---	---	111	101	107	75	71	73	76	73	74
17	---	---	---	111	86	99	79	74	76	76	74	75
18	---	---	---	---	---	---	81	75	78	91	75	79
19	---	---	---	---	---	---	84	82	83	96	80	88
20	---	---	---	---	---	---	86	81	84	95	83	90
21	---	---	---	---	---	---	87	85	86	99	90	95
22	---	---	---	---	---	---	90	86	88	107	99	103
23	---	---	---	---	---	---	---	---	---	107	99	103
24	---	---	---	---	---	---	---	---	---	112	99	105
25	---	---	---	---	---	---	84	82	83	97	88	93
26	---	---	---	---	---	---	81	77	79	90	86	88
27	---	---	---	---	---	---	79	77	78	89	85	87
28	---	---	---	---	---	---	81	76	80	88	84	86
29	---	---	---	---	---	---	84	81	82	86	80	83
30	---	---	---	---	---	---	84	82	83	89	83	86
31	---	---	---	---	---	---	---	---	---	93	87	90
MONTH	---	---	---	---	---	---	109	71	84	112	58	84

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	94	91	93	121	113	117	131	127	129	131	122	125
2	94	85	89	120	111	116	134	128	131	135	120	128
3	96	89	91	121	107	113	132	127	130	137	121	130
4	97	94	95	123	117	120	134	125	128	126	120	124
5	102	94	98	119	106	112	144	133	137	123	110	118
6	105	100	102	103	88	95	136	128	132	115	110	112
7	109	104	107	97	82	88	132	126	129	116	113	115
8	112	107	110	95	87	91	129	125	127	118	114	116
9	128	110	117	104	93	98	130	124	126	120	116	118
10	131	118	124	119	101	109	138	128	132	121	116	119
11	124	118	122	123	110	117	152	137	144	119	110	113
12	120	115	117	126	115	121	153	144	148	118	112	115
13	128	118	123	117	112	115	152	142	146	119	115	117
14	138	120	129	125	114	118	160	136	148	117	112	114
15	130	124	127	124	115	120	157	149	153	121	112	116
16	---	---	---	125	123	124	159	152	155	121	114	117
17	---	---	---	---	---	---	158	151	154	119	115	117
18	---	---	---	---	---	---	162	154	157	116	113	115
19	---	---	---	---	---	---	160	156	158	118	109	114
20	---	---	---	---	---	---	158	147	152	122	115	119
21	---	---	---	---	---	---	175	146	160	125	113	121
22	---	---	---	---	---	---	175	167	170	120	115	118
23	---	---	---	---	---	---	166	161	164	119	104	113
24	118	111	115	---	---	---	172	161	167	119	107	111
25	120	112	116	---	---	---	174	165	167	122	120	121
26	117	113	115	122	120	121	180	171	176	124	118	120
27	121	116	119	121	119	120	173	169	171	128	124	127
28	121	113	117	---	---	---	178	170	174	130	121	126
29	117	112	114	---	---	---	176	139	163	118	98	108
30	117	113	115	---	---	---	144	133	139	110	104	106
31	---	---	---	---	---	---	142	131	136	---	---	---
MONTH	---	---	---	---	---	---	180	124	148	137	98	118
YEAR	180	56	107									

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.7	6.7	7.0	6.9	6.9	7.1	7.0	7.1	6.8	6.7	6.8
2	6.9	6.7	6.8	7.1	6.9	7.0	7.1	7.0	7.1	6.8	6.7	6.8
3	7.0	6.8	6.9	7.1	7.0	7.0	7.2	7.0	7.1	6.7	6.5	6.6
4	7.0	6.9	6.9	7.1	7.0	7.1	7.1	7.0	7.1	6.6	6.5	6.5
5	7.0	6.9	6.9	7.1	7.0	7.1	7.1	7.0	7.0	6.6	6.6	6.6
6	7.1	6.9	7.0	7.1	7.0	7.1	7.1	6.9	7.0	6.8	6.7	6.7
7	7.0	6.9	7.0	7.1	7.0	7.1	7.0	6.8	6.9	6.8	6.7	6.7
8	7.1	6.1	7.0	7.1	7.0	7.0	6.9	6.8	6.8	6.8	6.8	6.8
9	7.2	7.0	7.1	7.0	6.9	7.0	7.0	6.8	6.9	6.8	6.8	6.8
10	7.1	6.9	7.0	7.0	6.9	7.0	6.9	6.4	6.7	6.9	6.7	6.8
11	7.1	7.0	7.0	---	---	---	6.8	6.1	6.7	6.7	6.6	6.7
12	7.2	7.1	7.2	---	---	---	6.9	6.8	6.9	6.8	6.8	6.8
13	7.3	7.1	7.2	---	---	---	6.9	6.8	6.9	---	---	---
14	7.2	7.1	7.2	---	---	---	7.0	6.8	6.9	---	---	---
15	---	---	---	---	---	---	6.8	6.7	6.8	---	---	---
16	---	---	---	6.9	6.7	6.8	6.9	6.8	6.8	---	---	---
17	---	---	---	7.0	6.8	6.9	6.9	6.9	6.9	---	---	---
18	---	---	---	7.1	7.0	7.1	6.9	6.8	6.9	---	---	---
19	---	---	---	7.2	7.1	7.1	6.9	6.8	6.9	---	---	---
20	---	---	---	7.2	7.1	7.1	7.2	6.9	7.0	---	---	---
21	---	---	---	7.1	7.0	7.1	7.1	6.6	7.0	---	---	---
22	---	---	---	7.1	7.0	7.1	6.9	6.6	6.9	---	---	---
23	---	---	---	7.0	6.9	6.9	7.1	6.9	7.0	---	---	---
24	---	---	---	7.0	6.9	7.0	7.0	6.9	7.0	---	---	---
25	6.8	6.8	6.8	7.1	7.0	7.1	7.0	6.9	7.0	---	---	---
26	6.9	6.8	6.8	7.0	7.0	7.0	7.0	6.9	7.0	---	---	---
27	---	---	---	7.1	7.0	7.0	6.9	6.9	6.9	---	---	---
28	7.1	6.8	6.9	7.0	6.9	7.0	6.9	6.9	6.9	6.9	6.8	6.8
29	7.1	6.8	7.0	7.0	7.0	7.0	6.9	6.8	6.8	6.9	6.8	6.9
30	7.1	7.0	7.1	7.1	6.9	7.0	6.8	6.7	6.8	6.9	6.8	6.9
31	7.0	7.0	7.0	---	---	---	6.7	6.6	6.7	6.9	6.8	6.9
MONTH	---	---	---	7.2	6.7	7.0	7.2	6.1	6.9	---	---	---

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.9	---	---	---	7.0	6.9	6.9	7.2	7.0	7.1
2	7.0	6.9	6.9	---	---	---	6.9	6.8	6.9	7.2	7.0	7.1
3	---	---	---	---	---	---	7.0	6.9	7.0	7.0	6.6	6.8
4	---	---	---	---	---	---	7.0	6.9	6.9	6.9	6.4	6.8
5	---	---	---	---	---	---	7.0	6.0	6.9	6.9	6.8	6.8
6	---	---	---	6.9	6.9	6.9	7.1	7.0	7.1	---	---	---
7	---	---	---	7.0	6.9	7.0	7.1	7.0	7.1	---	---	---
8	---	---	---	7.0	7.0	7.0	7.1	7.0	7.0	---	---	---
9	---	---	---	7.0	7.0	7.0	7.0	6.0	6.9	---	---	---
10	---	---	---	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.6	6.7
11	---	---	---	7.0	6.9	7.0	7.0	7.0	7.0	6.9	6.7	6.7
12	---	---	---	7.0	6.8	6.9	7.0	6.9	6.9	6.8	6.6	6.8
13	---	---	---	6.9	6.8	6.9	6.9	6.8	6.9	6.8	6.5	6.7
14	---	---	---	6.9	6.8	6.9	7.0	6.8	6.9	6.9	6.5	6.7
15	---	---	---	6.9	6.8	6.9	6.9	6.6	6.8	6.9	6.8	6.8
16	---	---	---	6.9	6.8	6.8	6.9	6.6	6.7	6.9	6.7	6.8
17	---	---	---	6.9	6.8	6.8	7.1	6.9	7.0	6.9	6.8	6.8
18	---	---	---	---	---	---	7.0	6.9	7.0	6.8	6.7	6.8
19	---	---	---	---	---	---	6.9	6.8	6.9	6.8	6.7	6.7
20	---	---	---	---	---	---	6.9	6.8	6.8	6.7	6.7	6.7
21	---	---	---	---	---	---	6.9	6.8	6.9	6.7	6.6	6.6
22	---	---	---	---	---	---	6.9	6.8	6.9	6.8	6.6	6.7
23	---	---	---	---	---	---	---	---	---	6.7	6.5	6.6
24	---	---	---	---	---	---	---	---	---	6.7	6.6	6.6
25	---	---	---	---	---	---	7.1	6.9	7.1	7.0	6.8	6.9
26	---	---	---	---	---	---	7.1	7.0	7.1	7.2	7.1	7.1
27	---	---	---	---	---	---	7.1	7.1	7.1	7.2	7.2	7.2
28	---	---	---	---	---	---	7.1	7.1	7.1	7.4	7.2	7.3
29	---	---	---	---	---	---	7.1	7.1	7.1	7.4	6.9	7.2
30	---	---	---	---	---	---	7.1	7.0	7.1	6.9	6.8	6.9
31	---	---	---	---	---	---	---	---	---	6.9	6.8	6.8
MONTH	---	---	---	---	---	---	7.1	6.0	7.0	7.4	6.4	6.8

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.8	6.8	6.8	6.7	6.7	7.0	6.7	6.9	7.0	6.8	6.9
2	6.8	6.4	6.6	7.2	6.6	6.9	7.1	6.6	6.8	6.9	6.6	6.8
3	6.9	6.8	6.8	7.1	6.9	7.0	7.1	6.7	6.8	6.7	6.6	6.7
4	6.8	6.7	6.8	7.2	6.9	7.1	7.1	6.7	6.8	7.0	6.7	6.9
5	6.8	6.7	6.8	7.1	6.7	6.9	6.8	6.6	6.7	7.0	6.9	7.0
6	6.7	6.6	6.7	6.8	6.6	6.7	7.1	6.6	6.8	7.0	6.9	7.0
7	6.7	6.6	6.6	6.8	6.6	6.7	7.1	6.7	6.8	7.1	7.0	7.0
8	6.7	6.6	6.6	7.0	6.7	6.9	7.0	6.5	6.7	7.0	6.8	7.0
9	6.7	6.5	6.6	7.1	6.8	6.9	6.9	6.5	6.7	6.9	6.7	6.8
10	6.6	6.4	6.5	7.1	6.8	6.9	7.0	6.6	6.7	7.0	6.7	6.8
11	6.6	6.5	6.6	7.0	6.8	6.9	7.8	6.4	6.8	6.8	6.6	6.7
12	6.7	6.6	6.6	7.2	6.8	7.0	7.9	6.5	6.9	6.8	6.6	6.7
13	6.7	6.5	6.6	7.2	6.9	7.0	7.7	6.5	6.9	6.9	6.6	6.8
14	6.8	6.5	6.7	6.9	6.8	6.9	8.0	6.6	7.2	6.9	6.7	6.7
15	6.8	6.6	6.7	7.0	6.7	6.8	8.4	7.1	7.7	6.9	6.6	6.7
16	---	---	---	6.7	6.6	6.7	9.0	6.9	7.6	6.9	6.6	6.7
17	---	---	---	---	---	---	7.2	6.9	7.0	6.9	6.7	6.8
18	---	---	---	---	---	---	7.2	6.7	6.9	7.0	6.6	6.8
19	---	---	---	---	---	---	7.3	6.7	6.9	6.8	6.5	6.6
20	---	---	---	---	---	---	7.3	6.7	7.0	6.8	6.5	6.6
21	---	---	---	---	---	---	7.7	6.8	7.1	6.6	6.5	6.5
22	---	---	---	---	---	---	7.8	6.8	7.2	6.8	6.5	6.6
23	---	---	---	---	---	---	7.0	6.8	6.9	6.8	6.6	6.7
24	6.9	6.8	6.9	---	---	---	7.1	6.8	6.9	6.8	6.7	6.8
25	6.9	6.8	6.8	---	---	---	7.8	6.8	7.1	7.0	6.8	6.9
26	6.8	6.7	6.8	6.9	6.7	6.8	7.2	6.9	7.0	6.9	6.8	6.9
27	6.8	6.7	6.7	6.7	6.6	6.6	7.0	6.8	6.9	7.0	6.8	6.9
28	6.8	6.7	6.7	---	---	---	7.1	6.9	7.0	6.9	6.6	6.8
29	6.8	6.7	6.8	---	---	---	6.9	6.7	6.8	6.6	6.5	6.6
30	7.0	6.7	6.8	---	---	---	6.8	6.7	6.8	6.7	6.6	6.7
31	---	---	---	---	---	---	7.0	6.7	6.9	---	---	---
MONTH	---	---	---	---	---	---	9.0	6.4	6.9	7.1	6.5	6.8
YEAR	9.0	6.0	6.9									

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.8	8.3	8.6	7.8	7.4	7.5	10.8	10.0	10.4	13.0	12.5	12.7
2	8.9	8.4	8.7	8.4	7.8	8.0	---	---	---	12.9	12.5	12.7
3	7.5	6.8	7.1	9.0	7.8	8.4	---	---	---	13.0	12.3	12.7
4	7.8	6.9	7.4	---	---	---	---	---	---	12.4	11.3	11.9
5	7.5	6.7	7.1	---	---	---	---	---	---	12.5	11.5	12.0
6	8.1	7.1	7.5	---	---	---	9.6	8.2	9.2	14.2	11.9	12.8
7	7.9	7.3	7.4	---	---	---	10.5	9.3	9.9	13.0	10.8	11.8
8	7.9	7.3	7.5	---	---	---	10.8	7.9	8.3	12.8	10.5	11.6
9	8.2	7.5	7.7	---	---	---	8.7	8.1	8.6	---	---	---
10	8.2	7.6	7.7	---	---	---	9.3	8.2	8.7	12.3	11.7	11.9
11	7.9	7.6	7.8	---	---	---	9.1	8.3	8.8	11.8	11.3	11.5
12	9.4	7.7	8.4	---	---	---	9.7	9.2	9.4	12.5	11.3	11.9
13	9.1	7.6	8.6	---	---	---	10.6	8.5	9.8	---	---	---
14	9.0	7.4	8.3	---	---	---	10.7	8.5	10.1	---	---	---
15	---	---	---	---	---	---	10.1	9.4	9.8	---	---	---
16	---	---	---	8.8	8.3	8.5	11.7	10.4	11.2	---	---	---
17	---	---	---	9.3	8.4	8.9	---	---	---	---	---	---
18	---	---	---	10.1	9.4	10.0	---	---	---	---	---	---
19	---	---	---	10.4	9.9	10.2	---	---	---	---	---	---
20	---	---	---	10.3	10.0	10.1	11.7	11.4	11.6	---	---	---
21	---	---	---	10.6	9.5	10.0	12.2	11.5	11.8	---	---	---
22	---	---	---	10.8	10.6	10.7	12.3	11.1	11.8	---	---	---
23	---	---	---	10.8	9.1	10.3	12.2	11.0	11.5	---	---	---
24	---	---	---	10.9	9.1	10.1	12.9	11.8	12.1	---	---	---
25	8.1	7.7	7.9	11.1	10.2	10.7	12.0	11.5	11.9	---	---	---
26	7.9	7.3	7.6	11.2	9.4	10.5	13.8	12.3	13.2	---	---	---
27	---	---	---	11.3	10.0	10.9	13.4	12.3	12.9	---	---	---
28	7.2	6.4	6.8	11.5	10.7	11.3	13.7	12.8	13.4	12.3	11.4	12.1
29	7.2	6.7	7.0	11.7	10.1	10.7	13.8	12.4	13.3	12.1	11.7	11.9
30	7.0	6.5	6.8	10.3	10.0	10.2	12.9	12.4	12.6	12.2	11.5	12.0
31	7.6	7.0	7.4	---	---	---	12.8	12.5	12.7	11.8	11.4	11.6
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.5	11.6	11.9	---	---	---	12.5	12.1	12.3	10.5	10.2	10.3
2	13.0	10.9	11.8	---	---	---	12.6	11.7	12.0	10.5	10.0	10.3
3	---	---	---	---	---	---	12.3	11.3	11.9	11.3	10.1	10.3
4	---	---	---	---	---	---	11.3	10.8	11.0	10.8	10.5	10.6
5	---	---	---	---	---	---	11.1	10.9	11.0	11.0	10.6	10.8
6	---	---	---	11.6	11.2	11.4	11.9	11.1	11.4	---	---	---
7	---	---	---	12.4	11.6	12.1	12.8	12.0	12.4	---	---	---
8	---	---	---	11.9	11.2	11.5	12.5	11.8	12.2	---	---	---
9	---	---	---	12.2	11.5	11.9	13.0	11.4	12.2	---	---	---
10	---	---	---	12.5	11.9	12.2	13.0	11.4	12.1	10.5	10.3	10.4
11	---	---	---	12.4	11.5	11.9	13.3	12.2	12.8	10.5	10.2	10.4
12	---	---	---	11.9	11.0	11.5	12.3	11.4	12.0	10.2	10.0	10.1
13	---	---	---	12.0	10.9	11.5	11.6	11.2	11.3	10.4	9.9	10.2
14	---	---	---	11.9	10.3	11.2	11.8	11.5	11.7	10.4	10.1	10.3
15	---	---	---	12.8	11.0	11.6	11.7	10.9	11.2	10.2	9.7	10.0
16	---	---	---	12.3	10.9	11.7	11.5	11.0	11.3	9.9	9.4	9.6
17	---	---	---	12.0	10.9	11.6	11.7	11.2	11.4	9.8	9.1	9.4
18	---	---	---	---	---	---	11.7	11.1	11.3	9.3	9.0	9.1
19	---	---	---	---	---	---	11.2	10.7	10.9	8.9	8.7	8.8
20	---	---	---	---	---	---	11.0	10.6	10.8	8.8	8.5	8.6
21	---	---	---	---	---	---	11.4	10.7	10.9	8.7	8.3	8.5
22	---	---	---	---	---	---	10.7	10.6	10.7	9.0	8.6	8.8
23	---	---	---	---	---	---	---	---	---	8.8	8.4	8.5
24	---	---	---	---	---	---	---	---	---	8.7	8.5	8.6
25	---	---	---	---	---	---	11.2	11.0	11.1	8.9	8.8	8.8
26	---	---	---	---	---	---	11.4	10.9	11.2	9.1	8.8	9.0
27	---	---	---	---	---	---	11.3	11.0	11.1	9.3	9.1	9.2
28	---	---	---	---	---	---	11.1	10.8	10.9	9.7	9.3	9.5
29	---	---	---	---	---	---	11.1	10.7	10.8	9.7	9.6	9.6
30	---	---	---	---	---	---	10.6	10.3	10.4	10.1	9.8	9.9
31	---	---	---	---	---	---	---	---	---	9.6	9.4	9.5
MONTH	---	---	---	---	---	---	13.3	10.3	11.4	11.3	8.3	9.6

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.5	9.3	9.4	8.8	7.9	8.3	7.5	6.8	7.3	---	---	---
2	9.1	9.0	9.0	8.3	6.7	7.5	7.6	6.9	7.2	---	---	---
3	8.8	8.6	8.7	7.1	6.7	6.9	7.6	7.2	7.4	---	---	---
4	8.6	8.3	8.5	7.3	6.5	6.9	7.6	6.8	7.3	---	---	---
5	8.4	8.2	8.3	6.9	6.6	6.8	7.6	6.7	7.0	---	---	---
6	9.3	7.9	8.3	7.4	6.9	7.3	7.6	6.7	7.1	7.7	7.2	7.5
7	9.3	8.9	9.1	8.0	7.3	7.7	7.6	7.2	7.3	8.5	6.8	7.8
8	9.3	8.7	9.1	7.6	6.8	7.2	7.7	7.1	7.4	7.1	6.5	6.9
9	9.1	7.4	8.6	7.4	6.6	7.0	7.8	7.3	7.5	7.4	6.9	7.1
10	9.0	7.5	8.3	7.2	6.3	6.8	7.8	7.2	7.5	8.3	6.3	7.1
11	8.4	7.4	7.8	7.4	7.0	7.3	8.0	7.2	7.6	8.0	7.0	7.4
12	7.9	7.2	7.6	7.8	6.9	7.3	8.2	7.5	7.8	7.2	6.7	6.9
13	7.9	6.9	7.5	7.7	7.4	7.5	8.3	7.5	7.9	6.6	6.1	6.4
14	7.4	6.9	7.3	7.6	7.1	7.4	8.5	7.9	8.3	6.1	5.7	5.9
15	7.8	7.1	7.4	7.8	7.2	7.4	8.3	7.8	8.1	6.4	5.8	6.1
16	---	---	---	7.3	7.2	7.2	8.3	7.5	8.0	7.0	6.3	6.6
17	---	---	---	---	---	---	8.3	7.8	8.1	7.4	6.6	7.0
18	---	---	---	---	---	---	8.2	7.7	7.9	7.4	6.7	7.1
19	---	---	---	---	---	---	8.3	7.5	7.9	7.3	6.3	7.1
20	---	---	---	---	---	---	8.2	7.7	7.9	6.7	6.3	6.4
21	---	---	---	---	---	---	8.2	7.5	8.0	6.7	6.5	6.6
22	---	---	---	---	---	---	8.2	7.7	7.9	7.3	6.6	6.9
23	---	---	---	---	---	---	8.2	7.9	8.1	7.6	6.8	7.2
24	7.4	6.7	7.1	---	---	---	8.3	7.7	8.1	7.2	6.8	6.9
25	7.8	7.3	7.5	---	---	---	---	---	---	7.5	7.0	7.2
26	7.6	7.3	7.4	6.8	6.0	6.3	---	---	---	7.9	7.6	7.7
27	7.8	7.7	7.7	6.9	6.7	6.8	---	---	---	8.0	7.3	7.7
28	8.5	7.8	8.2	---	---	---	---	---	---	7.8	6.9	7.2
29	8.7	8.2	8.5	---	---	---	---	---	---	6.9	6.5	6.7
30	8.9	7.9	8.4	---	---	---	---	---	---	6.8	6.5	6.6
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	8.5	5.7	7.0
YEAR	14.2	5.7	9.3									

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	16.5	17.5	11.5	11.0	11.5	6.5	5.0	5.5	2.0	1.5	2.0
2	18.0	16.5	17.0	11.5	10.5	11.0	5.5	4.0	4.5	1.5	1.0	1.5
3	18.0	17.0	17.5	11.5	10.0	10.5	4.5	3.5	4.0	1.5	1.0	1.5
4	18.5	17.0	17.5	10.0	9.0	9.5	4.5	3.5	4.0	2.5	1.5	2.0
5	18.5	17.5	18.0	9.0	8.0	8.5	5.5	4.0	4.5	2.0	1.0	1.5
6	18.0	16.5	17.5	8.5	7.5	8.0	7.5	5.0	6.5	1.5	0.5	1.0
7	17.0	16.0	16.5	7.5	7.0	7.0	7.0	5.0	6.0	2.0	1.0	1.5
8	16.5	15.5	16.0	7.5	6.5	7.0	5.5	4.0	5.0	2.0	0.5	1.0
9	16.5	15.0	16.0	7.5	6.5	7.0	4.5	4.0	4.0	1.0	0.0	0.5
10	16.5	15.5	15.5	6.5	5.5	6.0	4.5	4.0	4.5	0.5	0.0	0.5
11	16.0	14.5	15.5	6.5	5.0	5.5	4.5	3.0	4.0	1.5	0.5	1.0
12	16.5	14.5	16.0	---	---	---	4.0	3.0	3.5	1.0	0.0	0.5
13	16.0	15.0	15.5	---	---	---	4.0	3.0	3.5	---	---	---
14	16.5	14.0	16.0	---	---	---	4.5	3.5	4.0	---	---	---
15	---	---	---	---	---	---	4.5	4.0	4.0	---	---	---
16	---	---	---	8.5	8.0	8.5	4.0	2.0	3.0	---	---	---
17	---	---	---	8.0	6.5	7.5	2.0	0.0	0.5	---	---	---
18	---	---	---	6.5	5.5	6.0	0.5	0.0	0.0	---	---	---
19	---	---	---	6.5	5.5	6.0	0.5	0.0	0.0	---	---	---
20	---	---	---	6.0	5.5	5.5	1.0	0.0	0.5	---	---	---
21	---	---	---	6.0	5.0	5.5	1.5	0.5	1.0	---	---	---
22	---	---	---	6.5	5.5	6.0	1.0	0.0	0.5	---	---	---
23	---	---	---	6.0	5.5	6.0	1.0	0.0	0.5	---	---	---
24	---	---	---	6.5	5.5	6.0	1.0	0.5	0.5	---	---	---
25	13.5	12.5	13.0	6.5	6.0	6.0	0.5	0.0	0.0	---	---	---
26	13.5	12.5	13.0	7.0	5.5	6.5	1.5	0.5	1.0	---	---	---
27	---	---	---	7.0	6.0	6.5	2.0	1.5	2.0	---	---	---
28	12.5	12.0	12.5	7.0	6.5	6.5	3.5	1.5	2.5	2.0	2.0	2.0
29	12.0	11.5	11.5	7.0	6.5	6.5	2.5	1.0	1.5	2.5	2.0	2.5
30	12.5	11.5	12.0	7.0	6.0	6.5	3.0	1.5	2.5	3.0	2.0	2.5
31	12.0	11.0	11.5	---	---	---	2.0	2.0	2.0	3.0	2.5	3.0
MONTH	---	---	---	11.5	5.0	7.0	7.5	0.0	3.0	---	---	---

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.0	2.0	2.5	---	---	---	5.0	4.5	5.0	12.5	10.5	11.5
2	2.0	0.0	0.5	---	---	---	5.5	5.0	5.5	12.0	11.5	12.0
3	---	---	---	---	---	---	7.0	4.5	5.5	12.0	10.5	11.5
4	---	---	---	---	---	---	8.5	7.0	7.5	11.0	10.0	10.5
5	---	---	---	---	---	---	8.0	7.0	7.5	10.0	9.5	10.0
6	---	---	---	4.5	4.0	4.5	7.0	5.0	6.0	---	---	---
7	---	---	---	4.0	3.5	4.0	5.5	4.5	5.0	---	---	---
8	---	---	---	4.0	3.5	4.0	6.0	5.0	5.0	---	---	---
9	---	---	---	3.5	2.5	3.0	5.5	3.0	4.5	---	---	---
10	---	---	---	3.0	2.5	2.5	4.5	3.0	4.0	11.0	10.5	10.5
11	---	---	---	3.5	2.0	3.0	5.5	3.5	4.5	11.5	10.5	11.0
12	---	---	---	4.0	2.5	3.0	6.5	5.0	5.5	11.5	10.5	11.0
13	---	---	---	3.5	2.0	3.0	6.5	6.0	6.0	11.5	10.5	11.0
14	---	---	---	3.5	1.5	2.5	6.0	5.0	5.5	11.5	10.0	10.5
15	---	---	---	4.0	2.0	3.0	8.5	5.5	7.0	13.5	11.0	12.0
16	---	---	---	4.5	2.5	3.5	7.5	6.5	7.0	14.5	13.0	14.0
17	---	---	---	4.0	2.5	3.5	8.0	6.0	7.0	15.5	14.5	15.0
18	---	---	---	---	---	---	9.5	6.5	8.0	16.5	15.5	16.0
19	---	---	---	---	---	---	9.0	8.0	8.5	17.0	16.0	16.5
20	---	---	---	---	---	---	9.0	7.5	8.5	17.0	16.0	16.5
21	---	---	---	---	---	---	9.0	8.0	8.5	17.5	16.0	16.5
22	---	---	---	---	---	---	9.5	9.0	9.5	17.0	15.5	16.5
23	---	---	---	---	---	---	---	---	---	17.0	15.5	16.0
24	---	---	---	---	---	---	---	---	---	15.5	15.0	15.0
25	---	---	---	---	---	---	9.5	9.0	9.0	15.0	14.0	14.5
26	---	---	---	---	---	---	9.0	8.0	8.5	14.0	13.5	13.5
27	---	---	---	---	---	---	9.0	8.0	8.5	13.5	12.5	13.0
28	---	---	---	---	---	---	9.5	8.5	9.0	12.5	12.0	12.0
29	---	---	---	---	---	---	10.5	9.0	10.0	12.5	12.0	12.5
30	---	---	---	---	---	---	11.0	10.0	10.5	13.5	12.0	13.0
31	---	---	---	---	---	---	---	---	---	14.0	13.0	13.5
MONTH	---	---	---	---	---	---	11.0	3.0	7.0	17.5	9.5	13.0

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	13.5	14.0	23.0	21.0	22.0	25.5	24.5	25.5	23.5	22.0	23.0
2	15.0	14.0	14.5	23.5	22.0	22.5	26.0	24.0	25.0	22.5	21.0	22.5
3	16.0	14.0	15.5	24.0	22.5	23.5	26.0	25.0	25.5	22.0	20.5	21.5
4	17.0	15.5	16.5	24.5	22.5	23.5	27.0	25.0	25.5	21.0	19.0	20.0
5	18.0	16.0	17.0	25.0	24.0	24.5	27.0	25.0	26.0	20.5	19.0	19.5
6	19.0	17.0	18.5	24.5	22.5	23.5	27.0	25.0	26.0	19.5	19.0	19.5
7	19.5	17.5	18.5	23.5	22.0	23.0	25.5	24.5	25.5	19.5	18.5	19.0
8	20.0	18.5	19.0	25.0	23.0	24.0	26.0	24.0	25.0	20.0	18.5	19.0
9	21.5	19.0	20.0	25.5	24.5	25.0	25.0	24.0	24.5	21.5	19.0	20.0
10	23.5	20.5	22.0	26.5	25.0	26.0	25.5	23.5	24.0	21.5	20.0	21.0
11	24.0	22.0	23.0	26.0	24.5	25.0	27.5	23.0	25.0	22.0	20.5	21.5
12	23.0	21.0	22.0	25.0	23.5	24.0	26.5	23.0	25.0	23.0	21.5	22.0
13	22.5	20.5	21.5	25.0	23.5	24.0	27.5	24.0	26.0	23.5	22.0	22.5
14	22.0	20.5	21.5	26.0	23.5	24.5	27.0	25.5	26.5	23.5	22.0	22.5
15	22.5	21.0	21.5	26.5	24.5	25.5	27.5	25.5	26.5	23.0	21.0	22.0
16	---	---	---	25.5	25.5	25.5	27.5	25.0	26.0	22.5	20.5	21.5
17	---	---	---	---	---	---	26.0	25.0	26.0	21.5	20.0	21.0
18	---	---	---	---	---	---	27.0	25.0	26.0	22.0	20.0	21.0
19	---	---	---	---	---	---	27.5	25.0	26.0	21.5	20.0	20.5
20	---	---	---	---	---	---	27.0	25.0	26.0	21.5	20.0	21.0
21	---	---	---	---	---	---	27.5	25.5	26.5	21.5	20.5	21.0
22	---	---	---	---	---	---	27.0	25.5	26.5	21.0	19.5	20.0
23	---	---	---	---	---	---	26.5	25.5	26.0	19.5	18.5	19.0
24	22.5	21.5	22.0	---	---	---	27.0	25.0	26.0	18.5	17.0	18.0
25	21.5	20.5	21.0	---	---	---	27.5	25.0	26.5	17.0	16.5	17.0
26	20.5	19.5	20.0	24.5	23.0	23.5	26.5	24.5	25.5	17.0	16.0	16.5
27	19.5	19.0	19.0	23.0	23.0	23.0	25.0	24.0	24.5	17.5	16.0	16.5
28	21.5	19.0	20.0	---	---	---	25.5	24.5	25.0	18.0	16.5	17.5
29	21.0	19.5	20.0	---	---	---	25.0	24.0	24.5	18.5	17.5	18.0
30	22.0	20.0	21.0	---	---	---	23.5	22.5	23.0	17.5	16.5	17.0
31	---	---	---	---	---	---	23.5	22.0	22.5	---	---	---
MONTH	---	---	---	---	---	---	27.5	22.0	25.5	23.5	16.0	20.0
YEAR	27.5	0.0	13.0									

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.
(Radiochemical Station)

LOCATION.--Lat 41°59'15", long 72°36'21", Hartford County, at gaging station on canal of Connecticut Light and Power Co., 1.0 mi (1.6 km) downstream from Thompsonville, 3.0 mi (4.8 km) downstream from Massachusetts-Connecticut State line, and at mile 68.2 (109.1 km).

DRAINAGE AREA.--9,661 mi² (25,022 km²).

PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1956, January 1966 to September 1974.
Water temperatures: October 1955 to September 1956, October 1973 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 28.0°C Aug. 14, 22, 25; minimum, freezing point on many days during December, January, and February.

Period of record:
Water temperatures: Maximum, 28.0°C Aug. 17, 19, 1956, Aug. 14, 22, 25, 1974; minimum, freezing point on many days during winter months.

REMARKS.--Multiple-parameter monitor on right bank at Agawam, Mass. (sta 01183750).

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SUSPENDED MAGNESIUM (MG) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT. 17...	1000	5000	5.0	14	--	2.8	--	--	7.0	1.7	40
NOV. 08...	0850	6470	5.8	11	--	2.0	--	--	--	--	32
DEC. 13...	0845	18000	5.0	8.0	--	1.5	--	--	--	--	20
JAN. 17...	1020	15300	6.0	10	--	1.7	--	--	8.3	2.1	25
FEB. 14...	1020	16100	5.7	10	--	1.8	--	--	6.9	1.1	--
MAR. 14...	1025	17600	5.2	8.5	--	1.5	--	--	6.5	1.0	21
APR. 19...	1030	53800	3.9	8.0	19	1.0	.5	1.5	3.4	1.1	21
MAY 16...	0845	60800	4.8	9.0	9.0	1.0	.4	1.4	3.6	.8	19
JUNE 13...	1000	9210	5.0	11	11	1.6	.1	1.7	6.0	1.2	26
JULY 17...	0920	7670	4.5	11	--	1.5	--	--	6.0	1.3	33
AUG. 14...	0915	9060	2.1	15	--	3.2	--	--	9.6	1.9	43
SEP. 11...	0910	15300	4.9	12	--	2.4	--	--	7.5	1.2	28

DATE	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	TOTAL SULFIDE (S) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT. 17...	0	9.0	13	--	--	.6	--	--	--	--	.18
NOV. 08...	0	9.5	11	--	--	--	.20	.17	--	--	.20
DEC. 13...	0	6.3	11	.0	--	--	.04	.01	--	--	.04
JAN. 17...	0	10	12	.0	--	.0	.05	.02	--	--	.06
FEB. 14...	--	12	12	.0	--	.1	.08	.03	--	--	.05
MAR. 14...	0	7.0	10	.0	--	.2	.05	.02	--	--	.05
APR. 19...	0	5.4	8.3	--	<.5	.1	.05	--	.02	.00	.06
MAY 16...	0	4.6	8.5	--	.0	.1	.05	--	.01	.00	.06
JUNE 13...	0	8.5	11	--	.0	.2	.08	--	.03	.00	.08
JULY 17...	0	8.7	12	--	--	.2	--	--	--	--	.09
AUG. 14...	0	14	15	--	--	.1	--	--	--	--	.12
SEP. 11...	0	16	11	--	--	--	--	--	--	--	.12

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
17...	.06	.01	.77	.78	.17	.23	1.0	46	14	5.1	33
NOV.											
07...	.21	.02	.40	.42	.24	.45	.87	36	9	10	26
DEC.											
13...	.21	.01	.36	.37	.18	.39	.76	26	10	5.1	16
JAN.											
17...	.12	.01	.49	.50	.18	.30	.80	32	11	6.3	21
FEB.											
14...	.18	.01	.51	.52	.37	.55	1.1	32	--	--	--
MAR.											
14...	.27	.02	.40	.42	.30	.57	.99	27	10	5.3	17
APR.											
19...	.17	.01	.27	.28	.15	.32	.60	24	7	5.3	17
MAY											
16...	.06	.01	.24	.25	.27	.33	.58	27	11	2.4	16
JUNE											
13...	.11	.03	.37	.40	.40	.51	.91	34	13	8.3	21
JULY											
17...	.38	--	--	.35	.12	.50	.85	34	7	4.2	27
AUG.											
14...	.46	--	--	.14	.48	.94	1.1	51	15	1.7	35
SEP.											
11...	.46	--	--	.33	.26	.72	1.0	40	17	3.6	23

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.											
17...	88	73	1190	.12	0	--	0	1	5	--	--
NOV.											
07...	--	--	--	--	--	--	2	2	17	.0	16
DEC.											
13...	75	--	3600	.10	--	.01	4	1	17	.0	14
JAN.											
17...	80	63	3310	.11	--	.01	3	4	15	.0	28
FEB.											
14...	73	--	3170	.10	--	.00	2	1	6	.0	10
MAR.											
14...	52	48	7900	.07	--	.00	0	3	17	.0	11
APR.											
19...	52	42	7550	.07	--	.00	0	5	20	.0	15
MAY											
16...	51	46	4350	.07	0	.00	0	4	20	.0	12
JUNE											
13...	66	56	1640	.09	0	.01	1	3	8	.0	13
JULY											
17...	63	62	1300	.09	0	.01	--	1	6	.0	--
AUG.											
14...	85	82	2570	.12	0	.01	--	3	4	.1	--
SEP.											
11...	79	66	3260	.11	1	.01	--	1	2	.0	--

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.											
12...	131	7.1	14.0	14.0	6.6	64	320000	22000	37	7.5	7.5
NOV.											
08...	114	6.7	7.0	7.0	9.8	80	42000	10000	2800	7.0	10
DEC.											
13...	91	6.8	3.0	3.0	9.8	73	5500	2200	1600	.5	.5
JAN.											
17...	114	6.8	-8.0	.5	13.4	93	6800	3300	2000	4.0	4.5
FEB.											
14...	118	6.9	1.5	1.5	11.9	86	5400	2600	2600	--	--
MAR.											
14...	95	6.8	1.5	1.0	12.6	89	18000	1500	800	--	--
APR.											
19...	79	6.8	11.5	6.5	11.2	89	13000	500	320	--	3.0
MAY											
16...	71	7.1	25.0	12.0	10.2	95	10000	700	200	--	--
24...	92	7.2	--	15.0	--	--	--	--	--	--	--
JUNE											
13...	100	6.7	24.5	20.5	6.5	72	120000	14000	6300	--	3.4
JULY											
17...	117	7.1	23.5	23.5	7.8	91	240000	24000	600	--	3.7
AUG.											
14...	152	7.6	27.0	25.5	7.6	92	74000	3300	40	--	5.9
27...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
11...	120	7.1	18.0	20.0	5.2	57	510000	80000	750	--	6.1

DATE	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	PERI-PHYTON CHLORO-PHYLL B MG/SQ M	PERI-PHYTON CHLORO-PHYLL A MG/SQ M	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	TOTAL RESI-DUE (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.										
12...	5.2	--	--	--	--	.4	24	--	--	--
NOV.										
08...	--	--	--	--	--	--	--	--	--	--
DEC.										
13...	--	--	--	--	--	--	--	--	--	--
JAN.										
17...	.3	--	--	--	--	.6	33	--	--	--
FEB.										
14...	--	--	--	--	--	.5	31	--	--	--
MAR.										
14...	--	--	--	--	--	.4	25	--	58	12
APR.										
19...	--	--	--	--	--	.3	23	--	--	--
MAY										
16...	2.4	5.8	--	--	--	.3	22	--	--	36
24...	--	--	840	--	--	--	--	--	--	--
JUNE										
13...	4.5	7.2	5600	--	--	.4	27	--	--	5
JULY										
17...	5.7	16	15000	--	--	.5	27	86	--	--
AUG.										
14...	26	50	59000	--	--	.6	28	111	--	--
27...	--	--	--	.9	2.0	--	--	--	--	--
SEP.										
11...	12	2.0	14000	--	--	.5	28	87	--	--

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT.												
12...	75	--	--	--	10	0	<2	15	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
08...	--	--	--	--	--	--	--	--	--	--	--	--
DEC.												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
17...	--	0	--	0	--	--	--	--	2	--	<10	0
JAN-JUN COMPOSITE 1974	80	--	--	--	10	0	<2	10	2	--	--	2
FEB.												
14...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
14...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
19...	--	2	--	<1	--	--	--	--	2	--	<10	0
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JULY												
17...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
14...	--	1	0	1	--	--	--	--	2	0	<10	0
SEP.												
11...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SUS-PENDED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT.												
12...	--	--	--	--	--	--	--	--	--	0	<2	--
12...	--	0	--	--	--	--	10	--	--	--	--	170
NOV.												
08...	--	--	--	--	--	--	--	--	--	--	--	--
DEC.												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
17...	--	--	0	0	--	1	--	--	--	--	--	130
JAN-JUN COMPOSITE 1974	--	--	--	<2	--	--	13	--	--	0	<2	160
FEB.												
14...	--	--	--	--	--	--	--	--	--	--	--	160
MAR.												
14...	--	--	--	--	--	--	--	--	--	--	--	130
APR.												
19...	10	--	10	0	1	1	10	10	20	--	--	440
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	90
JUNE												
13...	--	--	--	--	--	--	--	--	--	--	--	150
JULY												
17...	--	--	--	--	--	--	0	--	--	--	--	70
AUG.												
14...	10	--	10	0	2	2	0	10	10	--	--	80
SEP.												
11...	--	--	--	--	--	--	0	--	--	--	--	70

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SUS-PENDED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)
OCT. 12...	--	--	--	--	--	0	--	--	--	--	--	0
12...	--	--	2	--	--	--	70	--	--	--	--	--
NOV. 08...	--	--	--	--	--	--	140	--	--	--	--	--
DEC. 13...	--	--	--	--	--	--	--	--	100	--	<.5	--
JAN. 17...	210	360	0	75	75	--	75	13	80	--	<.5	--
JAN-JUN COMPOSITE 1974	--	--	3	--	--	<3	60	--	--	<.5	--	0
FEB. 14...	--	--	--	--	--	--	60	--	--	--	--	--
MAR. 14...	--	--	--	--	--	--	50	--	--	--	--	--
APR. 19...	960	1400	3	0	3	--	20	50	70	<.5	<.5	--
MAY 16...	--	--	--	--	--	--	70	--	--	--	--	--
JUNE 13...	--	--	--	--	--	--	100	--	--	--	--	--
JULY 17...	--	--	--	--	--	--	20	--	--	--	--	--
AUG. 14...	320	400	1	11	12	--	20	130	150	<.5	<.5	--
SEP. 11...	--	--	--	--	--	--	50	--	--	--	--	--

DATE	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
OCT. 12...	6	--	--	--	0	87	<2	1.0	--	--	<3
12...	--	--	--	--	--	--	--	--	30	--	--
NOV. 08...	--	--	--	--	--	--	--	--	--	--	--
DEC. 13...	--	--	--	--	--	--	--	--	--	--	--
JAN. 17...	--	0	1	1	--	--	--	--	30	390	--
JAN-JUN COMPOSITE 1974	6	--	--	--	0	50	5	2.0	60	--	<2
FEB. 14...	--	--	--	--	--	--	--	--	--	--	--
MAR. 14...	--	--	--	--	--	--	--	--	--	--	--
APR. 19...	--	0	2	2	--	--	--	--	20	31	--
MAY 16...	--	--	--	--	--	--	--	--	--	--	--
JUNE 13...	--	--	--	--	--	--	--	--	--	--	--
JULY 17...	--	--	--	--	--	--	--	--	10	--	--
AUG. 14...	--	<2	--	<2	--	--	--	--	10	30	--
SEP. 11...	--	--	--	--	--	--	--	--	10	--	--

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)
OCT.										
17...	1	0	11	5	30	8100	<5	330	.0	15

DATE	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL STRON-TIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	IN-ORGANIC CARBON IN BED MA-TERIAL (G/KG)	ORGANIC CARBON IN BED MA-TERIAL (C) (G/KG)
OCT.									
17...	13	9	73	130	21	.4	140	.1	9.6

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)
OCT.										
17...	.00	.0	.00	.0	.0	2	.00	.4	.00	.7

DATE	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	ETHION (UG/L)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)
OCT.									
17...	.00	.0	.00	.4	.00	.0	.00	0	0

DATE	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	MALA-THION (UG/L)	PARA-THION (UG/L)	DI-AZINON (UG/L)
OCT.									
17...	.00	.0	.00	.0	.0	25	.00	.00	.00

DATE	METHYL PARA-THION (UG/L)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	TRI-THION (UG/L)	METHYL TRI-THION (UG/L)
OCT.									
17...	.00	.00	0	.00	0	.00	0	.00	.00

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SUS-PENDED SOLIDS (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.							
17...	6	--	--	--	1	2	55
JAN.							
17...	--	81	7	289	--	--	--
FEB.							
14...	--	66	10	4350	--	--	--
MAR.							
14...	--	38	43	3370	--	--	--
MAY							
24...	--	82	9	--	--	--	--
JUNE							
13...	--	83	9	226	--	--	--
JULY							
17...	--	95	10	287	--	--	--
AUG.							
14...	--	92	17	615	--	--	--
SEP.							
11...	--	95	7	284	--	--	--

DATE	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED RA-226 RADON METHOD (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90/Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90/Y90 (PC/L)
MAR.								
14...	2.9	.8	.04	.05	<.6	.9	2.0	.7

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	1.5	1.5	2.0	1.5	3.5	2.0
2	---	---	---	---	---	---	1.5	1.0	1.5	0.0	3.0	2.0
3	---	---	---	---	---	---	1.5	1.5	0.0	0.0	2.5	2.0
4	---	---	---	---	5.0	4.5	1.5	0.5	0.5	0.0	3.5	2.0
5	---	---	---	---	6.0	4.5	1.0	0.5	0.5	0.0	4.0	3.5
6	---	---	---	---	6.5	5.5	1.0	0.5	0.5	0.0	4.0	3.5
7	---	---	---	---	5.5	5.0	1.0	0.5	1.0	0.5	4.0	3.0
8	---	---	---	---	5.0	4.5	1.0	0.5	1.0	0.5	3.5	3.0
9	---	---	---	---	4.5	4.0	1.0	0.5	1.0	0.0	3.0	2.5
10	---	---	---	---	4.5	4.5	0.0	0.0	1.0	0.5	2.5	1.5
11	---	---	---	---	4.5	4.0	0.5	0.0	1.0	0.5	3.0	1.5
12	---	---	---	---	4.0	3.5	0.5	0.0	1.0	0.5	3.0	1.5
13	---	---	---	---	4.0	3.0	0.5	0.0	1.5	0.5	3.0	1.0
14	---	---	---	---	4.0	4.0	0.5	0.0	1.5	1.0	3.0	1.5
15	---	---	---	---	4.0	3.5	0.5	0.0	2.0	1.0	2.5	1.5
16	---	---	---	---	3.5	2.5	0.5	0.5	1.0	0.5	3.0	2.0
17	---	---	---	---	2.5	1.0	0.5	0.0	1.5	0.5	3.0	2.0
18	---	---	---	---	1.0	0.5	1.0	0.0	1.5	0.5	2.5	1.5
19	---	---	---	---	0.5	0.5	1.0	0.5	1.0	1.0	3.0	1.5
20	---	---	---	---	1.0	0.5	0.5	0.0	1.5	1.0	3.5	2.0
21	---	---	---	---	1.5	0.5	0.5	0.0	2.0	1.0	3.0	2.0
22	---	---	---	---	0.5	0.5	1.0	0.5	2.0	2.0	3.5	1.5
23	---	---	---	---	0.5	0.5	1.0	0.5	2.0	1.0	3.0	2.0
24	---	---	---	---	1.0	0.5	1.0	0.5	1.0	0.5	3.5	3.0
25	---	---	---	---	0.5	0.5	1.5	1.0	---	---	3.5	2.5
26	---	---	---	---	1.0	0.5	1.5	0.5	---	---	3.5	2.5
27	---	---	---	---	1.5	1.0	2.0	1.0	---	---	4.0	2.5
28	---	---	---	---	2.5	1.5	2.0	1.5	3.0	---	4.0	3.0
29	---	---	---	---	1.5	1.5	2.0	1.5	---	---	3.0	2.5
30	---	---	---	---	2.5	1.5	2.0	1.5	---	---	2.5	1.5
31	---	---	---	---	1.5	1.5	3.0	1.5	---	---	3.0	2.5
MONTH	---	---	---	---	6.5	0.5	3.0	0.0	3.0	0.0	4.0	1.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	3.0	11.5	10.0	14.5	14.0	22.5	20.5	25.0	24.0	25.0	23.5
2	4.5	4.0	11.0	10.0	15.0	14.0	23.0	21.5	25.0	24.0	24.5	23.5
3	4.5	4.0	10.5	10.0	16.0	14.0	23.0	22.0	25.0	24.5	23.5	21.5
4	7.0	5.5	10.0	9.5	17.0	15.0	24.0	22.0	25.5	25.0	21.5	21.0
5	6.5	6.0	---	---	18.0	16.0	24.5	23.5	26.0	25.0	21.5	20.5
6	6.0	4.5	10.0	9.5	19.0	17.0	24.0	23.0	26.0	25.0	21.0	20.5
7	4.5	3.5	10.0	9.0	19.0	17.0	23.5	21.5	25.5	25.0	20.5	20.0
8	4.5	4.0	10.5	9.0	19.5	18.0	---	---	25.0	24.0	21.0	17.5
9	3.5	3.0	10.5	9.5	20.5	18.5	25.5	24.5	---	---	21.5	20.5
10	4.0	3.0	10.0	10.0	22.0	20.0	26.0	26.0	---	---	23.0	21.5
11	4.5	3.0	11.0	10.0	23.0	21.0	25.5	24.0	---	---	23.5	21.5
12	5.0	4.0	10.5	10.0	21.5	20.5	24.5	23.5	---	---	24.0	22.0
13	5.0	5.0	10.5	10.0	21.5	19.5	25.0	23.5	---	---	24.5	23.5
14	5.0	4.5	10.5	9.5	21.0	20.0	25.5	24.0	28.0	26.5	24.0	23.5
15	8.5	5.0	12.0	10.0	21.5	20.0	26.0	24.5	27.5	26.0	23.5	22.0
16	8.0	7.0	14.0	13.0	21.5	20.5	---	---	27.5	25.5	23.5	22.0
17	8.0	7.0	15.0	14.0	21.5	20.5	25.5	25.0	26.0	25.5	23.0	21.5
18	8.5	7.0	16.0	14.5	22.5	21.0	25.5	24.5	26.5	25.0	23.0	21.5
19	8.5	8.0	16.0	14.5	22.5	21.0	25.0	24.5	27.5	25.0	22.5	21.5
20	8.5	7.0	16.0	15.0	22.5	21.0	24.5	24.0	27.5	25.5	23.0	22.0
21	8.5	7.0	16.0	14.5	21.5	21.0	25.0	23.0	---	---	22.5	22.0
22	9.0	8.5	16.5	14.5	22.5	21.0	25.0	23.5	28.0	26.5	21.5	21.0
23	9.5	9.0	16.0	15.0	21.5	21.0	25.0	24.0	27.5	26.5	21.0	20.0
24	9.0	8.5	15.0	14.5	22.5	21.0	24.5	24.0	27.5	26.0	20.0	19.0
25	9.0	8.0	14.5	14.0	22.5	20.5	24.5	23.5	28.0	26.0	19.0	18.5
26	9.0	8.0	14.0	13.5	22.5	21.0	24.5	23.5	26.5	26.0	19.0	18.5
27	9.0	7.5	13.5	13.0	22.5	21.0	24.0	23.5	25.5	25.0	18.5	18.0
28	9.0	8.0	13.0	12.5	20.0	18.5	24.0	24.0	26.5	25.0	18.5	18.0
29	10.5	8.5	13.0	11.5	20.5	19.5	24.0	23.5	25.5	24.5	19.0	18.5
30	10.5	10.0	13.5	12.0	21.5	20.0	24.5	24.0	24.5	24.0	18.5	18.0
31	---	---	14.5	13.5	---	---	25.0	24.0	24.5	23.5	---	---
MONTH	10.5	3.0	16.5	9.0	23.0	14.0	26.0	20.5	28.0	23.5	25.0	17.5
YEAR	28.0	0.0										

01186800 STILL RIVER AT RIVERTON, CONN.

LOCATION.--Lat 41°57'34", long 73°01'12", Litchfield County, at bridge on State Highway 20, at Riverton.

DRAINAGE AREA.--86.2 mi² (223.3 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY 15...	1015	40	3.9	10	200	0	10	9.0	2.7	22	0	19
AUG. 12...	0940	10	4.3	0	100	40	0	12	4.1	30	0	31
SEP. 09...	0840	80	4.8	0	250	10	0	8.0	2.6	26	0	8.6

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY 15...	10	.25	.43	.55	.85	.00	.41	1.3	5.6	69	7.45	.09
AUG. 12...	12	.13	.58	.75	2.1	.35	.93	3.0	13	133	3.66	.18
SEP. 09...	9.6	.03	.37	.48	.29	.02	.39	.68	3.0	69	14.9	.09

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY 15...	85	34	16	1.8	18	0	.00	1	6	.0	152
AUG. 12...	147	47	22	2.4	25	0	.01	1	5	.1	190
SEP. 09...	54	31	9	3.3	21	0	.01	1	30	.0	95

DATE	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 15...	7.3	27.5	23.0	9.1	105	B42000	4300	780	1.3	2.0	4.0
AUG. 12...	7.3	24.0	21.5	8.9	100	3800	57	88	25	39	5.6
SEP. 09...	7.1	17.0	16.0	9.8	99	950	110	62	3.0	1.0	7.6

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01188000 BURLINGTON BROOK NEAR BURLINGTON, CONN.

LOCATION.--Lat 41°47'10", long 72°57'55", Hartford County, at gaging station on left bank 1.2 mi (1.9 km) north of Burlington, 3 mi (5 km) upstream from mouth, and 3 mi (5 km) southwest of Collinsville.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
11...	1345	--	--	140	27	--	--	--	--	--	--	--
11...	1400	2.6	11	110	30	4.5	1.8	14	0	6.5	1.1	11
NOV.												
07...	1235	5.4	11	--	350	3.7	1.7	10	0	--	--	9.0
DEC.												
12...	1315	10	8.5	--	20	2.9	1.5	6	0	--	--	5.9
JAN.												
16...	1310	4.7	8.3	90	70	3.5	1.6	8	0	--	--	8.1
FEB.												
13...	1315	7.4	8.0	130	70	3.6	1.5	6	0	--	--	9.2
MAR.												
13...	1315	6.6	8.2	160	60	3.5	1.6	9	0	--	--	10
APR.												
18...	1235	10	5.8	150	70	3.0	1.3	7	0	--	--	8.7
MAY												
16...	1310	4.2	6.7	150	50	3.5	1.3	9	0	--	--	7.7
JUNE												
12...	1235	2.5	10	380	50	4.6	1.7	10	0	--	--	12
JULY												
15...	1205	2.2	11	140	40	4.5	1.8	14	0	--	--	13
AUG.												
12...	1215	1.3	10	230	20	5.0	2.5	13	0	--	--	14
SEP.												
04...	1025	4.1	9.4	220	30	4.3	2.2	16	0	--	--	9.0

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	TOTAL SULFIDE (S) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.												
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	6.7	--	--	.1	.01	--	--	--	--	.11	.14	.14
NOV.												
07...	7.0	--	--	--	.05	.04	.04	--	--	.01	.01	.18
DEC.												
12...	7.4	.0	--	--	.00	.00	.00	--	--	.06	.08	.15
JAN.												
16...	6.4	.0	--	--	.01	.00	.00	--	--	.01	.01	.31
FEB.												
13...	6.9	.0	--	--	.00	.00	.00	--	--	.01	.01	.32
MAR.												
13...	7.6	.0	--	--	.01	.01	.00	--	--	.11	.14	.24
APR.												
18...	7.2	--	<.5	--	.01	.02	--	.00	.00	.08	.10	.17
MAY												
15...	2.1	--	.0	--	.01	.01	--	.00	.00	.02	.03	.12
JUNE												
12...	8.0	--	.3	--	.01	.01	--	.01	.00	.02	.03	.29
JULY												
15...	7.0	--	--	--	.02	--	--	--	--	.24	.31	--
AUG.												
12...	6.4	--	--	--	.01	--	--	--	--	.26	.33	--
SEP.												
04...	7.4	--	--	--	.02	--	--	--	--	.21	.27	--

01188000 BURLINGTON BROOK NEAR BURLINGTON, CONN.--Continued

DRAINAGE AREA.--4.13 mi² (10.70 km²).

PERIOD OF RECORD.--Chemical analyses: June 1968 to September 1974.
Water temperatures: January 1971 to January 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT. 11...	.00	.15	.03	.14	.29	1.3	--	50	.32	.07	--	1
NOV. 07...	.00	.18	.24	.25	.43	1.9	57	--	.86	.08	--	17
DEC. 12...	.00	.15	.08	.14	.29	1.3	52	--	1.40	.07	--	12
JAN. 16...	.00	.31	.05	.06	.37	1.6	47	--	1.04	.06	--	15
FEB. 13...	.00	.32	.14	.15	.47	2.1	47	--	.94	.06	--	15
MAR. 13...	.01	.25	--	.03	.28	1.2	45	--	.80	.06	--	15
APR. 18...	.01	.18	.00	.04	.22	.97	--	--	--	--	--	13
MAY 15...	.01	.13	.11	.13	.26	1.2	--	--	--	--	--	14
JUNE 12...	.01	.30	.10	.12	.42	1.9	--	--	--	--	--	18
JULY 15...	--	.22	.00	.15	.37	1.6	47	--	.28	.06	59	19
AUG. 12...	--	.21	.00	.22	.43	1.9	59	--	.21	.08	67	25
SEP. 09...	--	.17	.00	.16	.33	1.5	55	--	.61	.07	49	33

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 11...	7	2.8	11	--	--	--	1	--	--	3.0	9.0
NOV. 07...	8	3.2	4	--	--	2	1	5	.0	4.5	10
DEC. 12...	7	3.0	5	--	.01	0	1	15	.0	.0	.0
JAN. 16...	4	4.6	7	--	.00	0	1	7	.0	1.5	1.5
FEB. 13...	10	1.5	5	--	.00	0	1	5	.0	.0	.0
MAR. 13...	8	2.3	7	--	.00	0	1	3	.0	--	--
APR. 18...	7	4.5	6	--	.00	0	1	6	.0	--	--
MAY 15...	7	1.8	7	--	.00	0	1	10	.0	--	--
JUNE 12...	10	3.2	8	--	.00	0	1	9	.0	--	2.8
JULY 15...	7	2.2	11	0	.01	--	1	3	.0	--	2.0
AUG. 12...	14	1.3	11	0	.00	--	2	2	.0	--	1.6
SEP. 09...	18	1.4	15	0	.01	--	1	10	.0	--	4.9

01188000 BURLINGTON BROOK NEAR BURLINGTON, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.												
11...	77	6.9	16.5	11.0	9.0	82	62	11	37	--	--	--
NOV.												
07...	68	6.7	6.0	5.5	11.7	90	29	8	1	--	--	6
DEC.												
12...	56	6.5	2.0	3.5	11.5	87	62	16	60	--	--	7
JAN.												
16...	72	6.5	4.0	2.0	11.3	82	60	31	4	--	--	3
FEB.												
13...	64	6.8	9.0	2.0	11.7	85	22	0	0	--	--	5
MAR.												
13...	74	6.8	-1.5	1.5	12.0	86	60	0	0	--	--	4
APR.												
18...	60	6.4	20.5	10.0	8.0	71	38	0	0	--	--	5
MAY												
15...	56	6.9	28.0	16.0	9.2	93	B630	4	7	--	--	7
JUNE												
12...	73	6.7	17.0	14.0	9.0	87	1300	220	230	--	--	6
JULY												
15...	95	7.0	28.0	23.0	9.2	106	B25000	140	1100	.3	2.0	--
AUG.												
12...	75	7.2	26.0	17.0	9.8	100	B400	31	77	.7	1.3	--
SEP.												
09...	77	7.3	21.0	15.0	9.7	95	170	130	45	1.0	.0	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR+6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)
OCT.											
11...	45	0	<1	7	3	0	--	<1	2	0	<1
11...	--	--	--	--	--	--	0	--	0	--	--
JULY											
15...	--	--	--	--	--	--	--	--	0	--	--
AUG.											
12...	--	--	--	--	--	--	--	--	0	--	--
SEP.											
09...	--	--	--	--	--	--	--	--	0	--	--

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
OCT.											
11...	0	2	0	1	0	25	<1	0	<.6	6	<2
11...	--	1	--	--	--	--	--	--	--	20	--
JULY											
15...	--	--	--	--	--	--	--	--	--	30	--
AUG.											
12...	--	--	--	--	--	--	--	--	--	10	--
SEP.											
09...	--	--	--	--	--	--	--	--	--	10	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

01188000 BURLINGTON BROOK NEAR BURLINGTON, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)
OCT. 11...	.0	.0	0	.00	.0	.00	<.1	.00	.0	.00	.0	.00

DATE	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T (UG/L)
OCT. 11...	.0	.00	.0	.00	.0	.00	.0	0	0	.00	0	.00

DATE	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	DIAZINON (UG/L)	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)
OCT. 11...	0	.00	0	<.00	.00	.00	.00	.00	.00	.0	0

DATE	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)
OCT. 11...	1	1	99	150	1.7	.8	240	.1	3.7	0	0

DATE	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL STRONTIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
OCT. 11...	1	2	1	2100	<5	40	.0	0	4	0	5

01188085 FARMINGTON RIVER AT UNIONVILLE, CONN.

LOCATION.--Lat 41°45'52", long 72°53'47", Hartford County, at bridge on State Highway 4, at Unionville.

DRAINAGE AREA.--377 mi² (976 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY 15...	1340	612	4.1	0	210	0	10	5.0	1.4	11	0	8.4
AUG. 12...	1340	513	3.6	0	80	10	20	6.1	1.7	11	0	9.2
SEP. 10...	1350	323	4.5	10	160	10	10	10	1.7	17	0	8.5

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY 15...	9.5	.03	.18	.23	.12	.02	.20	.32	1.4	36	59.5	.05
AUG. 12...	9.5	.38	.12	.15	.11	.05	.17	.28	1.2	48	66.5	.07
SEP. 10...	8.9	.04	.17	.22	.17	.10	.27	.44	1.9	65	56.7	.09

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY 15...	42	18	9	.4	9	0	.00	1	2	.0	75
AUG. 12...	55	22	13	.0	9	0	.01	1	1	.0	70
SEP. 10...	65	32	18	.0	14	3	.01	1	6	.0	86

DATE	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 15...	7.7	31.5	27.5	9.0	112	12000	860	210	.3	2.7	2.5
AUG. 12...	8.7	28.5	20.5	9.8	108	8900	46	60	.5	4.0	4.2
SEP. 10...	8.9	27.5	21.0	9.4	104	3700	77	13	1.0	.0	6.3

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

CONNECTICUT RIVER BASIN

01189030 PEQUABUCK RIVER AT FARMINGTON, CONN.

LOCATION.--41°43'00", long 72°50'25", Hartford County, at bridge on Meadow Road, at Farmington.

DRAINAGE AREA.--57.2 mi² (148.1 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY 16...	1230	404	4.8	0	130	60	10	7.0	1.7	17	0	11
AUG. 13...	1235	499	4.1	0	100	40	0	8.0	2.7	27	0	12
SEP. 09...	1205	331	5.7	0	180	30	10	8.3	2.0	24	0	10

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY 16...	12	.23	.50	.64	.35	.00	.50	.85	3.8	52	56.7	.07
AUG. 13...	11	.25	.45	.58	.29	.24	.69	.98	4.3	65	87.6	.09
SEP. 09...	10	.38	.58	.75	.42	.08	.66	1.1	4.8	69	61.7	.09

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY 16...	75	24	11	3.4	14	0	.01	2	4	.0	103
AUG. 13...	65	31	9	3.4	22	0	.00	1	4	.0	95
SEP. 09...	68	29	9	3.8	20	3	.01	1	4	.0	108

DATE	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 16...	6.9	27.0	22.5	8.4	95	13000	B95	300	.7	1.3	2.8
AUG. 13...	7.1	31.0	21.0	9.0	100	2800	63	16	1.0	4.0	5.1
SEP. 09...	7.0	21.5	18.0	8.5	89	200	38	7	1.0	.0	5.9

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01189120 FARMINGTON RIVER AT AVON, CONN.

LOCATION.--Lat 41°48'24", long 72°49'23", Hartford County, at bridge on U.S. Highway 44, at Avon.

DRAINAGE AREA.--465 mi² (1,204 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY												
15...	1515	32	11	20	80	120	30	14	4.2	78	0	34
AUG.												
12...	1520	26	12	10	90	110	20	21	2.3	88	0	36
SEP.												
10...	1120	41	12	40	210	190	50	21	3.7	78	0	29

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY												
15...	28	2.2	7.0	9.0	.79	.00	6.2	7.0	31	157	13.6	.21
AUG.												
12...	36	2.3	7.6	9.8	.84	.40	8.0	8.8	39	212	14.9	.29
SEP.												
10...	30	1.8	4.7	6.1	.91	.60	5.3	6.2	28	169	18.7	.23

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY											
15...	214	52	0	9.9	64	0	.01	3	20	.4	350
AUG.											
12...	237	62	0	8.7	71	1	.01	3	6	.5	341
SEP.											
10...	187	68	4	9.9	64	0	.02	1	20	.3	295

DATE	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
15...	7.1	26.5	30.5	5.5	72	160000	750	550	.0	.0	9.0
AUG.											
12...	7.2	28.0	23.0	3.6	40	1900	150	100	3.0	4.5	12
SEP.											
10...	7.1	24.0	18.0	3.0	32	24000	280	140	1.0	.0	10

01189995 FARMINGTON RIVER AT TARIFFVILLE, CONN.

LOCATION.--Lat 41°54'30", long 72°45'40", Hartford County, at gaging station on right bank at Tariffville, behind house at 20 Tunxis Road, 0.3 mi (0.5 km) downstream from bridge on State Highway 189 and 5.5 mi (8.8 km) upstream from gage at Rainbow.

DRAINAGE AREA.--571 mi^2 (1,479 km^2).

PERIOD OF RECORD.--Chemical analyses: January 1971 to September 1974.
Water temperatures: January 1971 to January 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
11...	1545	740	--	150	33	--	--	--	--	--	--	--
11...	1550	740	4.3	130	50	7.5	2.8	20	0	7.0	1.2	9.0
NOV.												
07...	1440	550	7.1	--	140	10	2.5	26	0	--	--	12
DEC.												
12...	1515	1660	5.7	--	20	6.6	1.9	15	0	--	--	8.0
JAN.												
16...	1530	1110	7.2	150	100	9.5	2.2	23	0	--	--	13
FEB.												
13...	1510	1200	6.4	130	80	8.9	2.1	19	0	--	--	12
MAR.												
13...	1600	1370	5.5	160	80	6.5	1.7	16	0	--	--	6.8
APR.												
18...	1425	2600	4.7	120	40	6.2	1.4	16	0	--	--	9.1
MAY												
15...	1435	2300	4.3	150	40	7.4	1.6	17	0	--	--	7.5
JUNE												
12...	1415	825	5.7	210	70	9.8	2.0	23	0	--	--	12
JULY												
16...	1515	710	5.1	160	50	7.3	1.7	18	0	--	--	11
AUG.												
13...	1020	608	4.3	110	50	9.1	2.2	20	0	--	--	11
SEP.												
10...	0845	685	6.3	170	80	14	1.9	29	0	--	--	11

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	TOTAL SULFIDE (S) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.												
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	11	--	--	.4	.32	--	--	--	--	.30	.39	.49
NOV.												
07...	13	--	--	--	.38	.37	.33	--	--	.44	.57	.69
DEC.												
12...	12	.5	--	--	.13	.12	.08	--	--	.25	.32	.42
JAN.												
16...	13	.0	--	--	.13	.12	.06	--	--	.30	.39	.62
FEB.												
13...	11	.0	--	--	.11	.08	.08	--	--	.29	.37	.58
MAR.												
13...	11	.5	--	--	.08	.08	.06	--	--	.26	.33	.38
APR.												
18...	11	--	.5	--	.10	.09	--	.07	.00	.21	.27	.32
MAY												
15...	9.8	--	.6	--	.14	.14	--	.09	.00	.13	.17	.28
JUNE												
12...	13	--	.0	--	.20	.18	--	.14	.00	.16	.21	.60
JULY												
16...	12	--	--	--	.21	--	--	--	--	.33	.43	--
AUG.												
13...	11	--	--	--	.16	--	--	--	--	.33	.43	--
SEP.												
10...	12	--	--	--	.18	--	--	--	--	.43	.55	--

01189995 FARMINGTON RIVER AT TARIFFVILLE, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT. 11...	.03	.53	.17	.47	1.0	4.4	--	53	106	.07	--	30
NOV. 07...	.02	.71	.19	.53	1.2	5.5	86	--	128	.12	--	35
DEC. 12...	.01	.43	.21	.46	.89	3.9	76	--	245	.10	--	24
JAN. 16...	.01	.63	.15	.45	1.1	4.8	81	--	263	.11	--	33
FEB. 13...	.01	.59	.29	.58	1.2	5.2	70	--	227	.10	--	31
MAR. 13...	.02	.40	.09	.35	.75	3.3	58	--	215	.08	--	23
APR. 18...	.03	.35	.05	.26	.61	2.7	--	--	--	--	--	21
MAY 15...	.02	.30	.20	.33	.63	2.8	--	--	--	--	--	25
JUNE 12...	.07	.67	.45	.61	1.3	5.7	--	--	--	--	--	23
JULY 16...	--	.42	.07	.40	.82	3.6	51	--	97.8	.07	73	25
AUG. 13...	--	.43	.12	.45	.88	3.9	78	--	126	.11	78	32
SEP. 10...	--	.57	.01	.44	1.0	4.5	80	--	105	.11	86	43

DATE	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 11...	14	6.4	16	--	--	0	3	--	--	4.3	5.7
NOV. 07...	18	7.7	20	--	--	1	2	12	.0	7.5	7.5
DEC. 12...	12	7.6	12	--	.01	0	3	22	.0	3.0	3.0
JAN. 16...	14	7.3	19	--	.01	1	1	13	.0	3.5	4.5
FEB. 13...	15	4.8	16	--	.00	0	1	6	.0	4.0	4.5
MAR. 13...	12	3.6	11	--	.00	0	2	5	.0	--	--
APR. 18...	8	5.1	13	--	.00	0	1	10	.0	--	2.5
MAY 15...	11	2.7	14	--	.00	0	2	10	.0	--	--
JUNE 12...	14	7.3	19	--	.02	5	1	7	.0	--	2.8
JULY 16...	10	2.4	15	0	.01	--	1	2	.0	--	3.1
AUG. 13...	15	2.0	16	0	.00	--	1	2	.0	--	3.4
SEP. 10...	19	5.4	24	2	.01	--	1	3	.0	--	4.3

01189995 FARMINGTON RIVER AT TARIFFVILLE, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT. 11...	99	6.7	14.5	14.0	8.0	84	3700	3200	1000	--	--	--
NOV. 07...	132	6.7	9.0	6.5	10.5	85	5200	3200	1400	--	--	13
DEC. 12...	87	6.5	3.5	4.0	11.8	90	10000	5600	3900	--	--	15
JAN. 16...	132	6.7	4.0	1.0	12.7	89	15000	3400	2200	--	--	8
FEB. 13...	114	6.4	12.0	2.0	10.5	76	5800	7600	400	--	--	9
MAR. 13...	87	6.8	.5	2.5	12.3	90	11000	600	150	--	--	8
APR. 16...	86	6.7	20.5	9.5	8.5	75	5000	140	150	--	--	12
MAY 15...	73	7.0	24.0	14.5	7.0	69	13000	100	1400	--	--	14
JUNE 12...	138	6.7	19.5	21.0	8.5	96	44000	2700	120	--	--	13
JULY 16...	103	7.0	24.0	22.5	8.5	98	48000	3200	440	1.7	4.0	--
AUG. 13...	107	7.2	26.0	21.0	8.1	90	56000	11000	720	3.5	5.0	--
SEP. 17...	114	6.9	16.5	19.0	8.4	88	52000	6500	390	1.0	.0	--

DATE	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)	DIS- SOLVED GER- MANIUM (GE) (UG/L)
OCT. 11...	40	0	<2	20	4	1	--	<2	3	0	<2
11...	--	--	--	--	--	--	0	--	0	--	--
JULY 16...	--	--	--	--	--	--	--	--	0	--	--
AUG. 13...	--	--	--	--	--	--	--	--	0	--	--
SEP. 17...	--	--	--	--	--	--	--	--	0	--	--

DATE	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)	DIS- SOLVED TI- TANIUM (TI) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)
OCT. 11...	0	2	0	10	0	37	<2	<2	.6	10	<3
11...	--	2	--	--	--	--	--	--	--	20	--
JULY 16...	--	--	--	--	--	--	--	--	--	10	--
AUG. 13...	--	--	--	--	--	--	--	--	--	10	--
SEP. 17...	--	--	--	--	--	--	--	--	--	30	--

01189995 FARMINGTON RIVER AT TARIFFVILLE, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)
OCT., 11...	.00	.0	.0	1	.00	.4	.00	.0	.00	.4	.01	.5

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)
OCT., 11...	.00	.0	.00	.0	.00	.0	.00	.0	0	0	.00	0

DATE	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	PCB (UG/L)
OCT., 11...	.00	0	.00	0	.00	.00	.00	.00	.00	.00	.00	.0

DATE	PCB IN BOTTOM DE-POSITS (UG/KG)	SED MAT. FALL DIAM. % FINER THAN .004 MM	SED MAT. FALL DIAM. % FINER THAN .062 MM	SED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	IN-ORGANIC CARBON IN BED MA-TERIAL (G/KG)	ORGANIC CARBON IN BED MA-TERIAL (C) (G/KG)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)
OCT., 11...	<1	1	1	34	84	19	.0	104	.0	1.4	3	2

DATE	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL STRON-TIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
OCT., 11...	6	2	4	4400	<5	44	.0	5	4	0	31

01189996 RAINBOW RESERVOIR AT RAINBOW, CONN.

LOCATION.--Lat 41°54'55", long 72°41'50", Hartford County, at hydroelectric plant at dam of Farmington River Power Company, at Rainbow, 0.4 mi (0.6 km) upstream from gaging station, on the Farmington River, and 6.0 mi (9.6 km) downstream from Salmon Brook.

DRAINAGE AREA.--582 mi² (1,507 km²).

PERIOD OF RECORD.--Water temperatures: October 1957 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 25.5°C July 10, 11, 14, 15, 1974; minimum 0.5°C Jan. 13-22, 1974.

Period of record:
Water temperatures: Maximum, 28.0°C July 2, 1958, July 29, 1963, July 30, 1970; minimum freezing point on many days during winter months.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENT AT APPROXIMATELY 0800)

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.5	11.5	8.5	2.0	3.5	3.0	3.5	15.5	15.5	20.0	23.5	---
2	23.5	11.0	9.5	2.0	3.0	4.0	3.5	16.0	18.0	20.0	23.5	22.0
3	23.5	10.5	5.5	1.5	3.0	4.0	4.5	13.5	18.0	21.0	23.5	21.5
4	14.5	10.5	5.5	1.5	1.0	4.0	7.0	13.5	18.0	21.0	25.0	20.5
5	18.0	8.0	5.5	1.5	1.0	5.5	9.0	14.0	18.0	22.0	22.0	19.5
6	18.0	8.5	5.5	3.0	1.0	5.5	9.5	14.0	20.0	23.5	24.5	19.5
7	20.5	8.0	5.5	1.5	1.0	8.0	8.0	12.0	20.0	24.0	24.0	18.0
8	21.5	8.5	6.0	1.5	1.0	8.0	8.0	12.0	21.0	24.5	23.0	18.5
9	21.0	8.5	6.5	1.0	1.0	7.0	7.0	13.5	21.0	24.5	23.0	18.5
10	20.5	8.0	5.5	1.0	1.0	5.5	4.5	13.5	21.0	25.5	23.0	18.5
11	14.0	5.5	5.5	1.0	1.0	5.5	4.5	12.0	22.0	25.5	23.0	18.5
12	13.5	4.5	4.5	1.0	1.0	4.5	5.5	14.0	22.0	24.5	22.0	20.0
13	12.0	4.5	4.5	0.5	1.0	4.5	8.5	14.0	23.5	24.5	22.0	24.5
14	12.0	4.5	3.5	0.5	1.0	3.5	9.0	14.0	23.5	25.5	22.0	22.0
15	13.0	4.5	3.5	0.5	1.0	3.5	9.0	14.5	23.0	25.5	22.0	23.0
16	12.0	5.0	3.5	0.5	1.0	3.5	8.0	14.5	22.0	24.5	22.0	21.5
17	12.0	5.5	4.0	0.5	1.5	3.5	4.5	15.5	23.0	23.5	22.0	21.0
18	12.0	5.5	1.0	0.5	2.0	6.0	5.5	17.0	22.0	23.5	22.0	20.5
19	13.0	5.5	1.0	0.5	1.5	4.5	5.0	18.0	21.0	24.5	23.0	20.0
20	12.0	5.0	1.0	0.5	1.0	4.0	4.5	18.0	22.0	24.5	22.0	20.0
21	13.0	5.5	1.0	0.5	1.0	4.5	5.0	19.5	22.0	23.5	22.0	20.0
22	11.0	6.5	1.0	0.5	1.0	4.0	11.0	18.5	22.0	23.5	23.0	20.0
23	11.0	7.0	1.0	1.0	2.0	3.5	13.0	18.0	22.0	23.5	22.0	19.0
24	11.0	8.0	1.0	1.0	3.0	4.5	13.5	18.0	21.0	23.5	24.0	19.0
25	11.5	9.0	0.5	1.5	2.0	4.5	13.5	18.5	21.5	23.5	23.5	16.5
26	12.0	8.0	0.5	3.5	2.0	4.5	12.0	15.5	21.0	23.5	23.5	16.0
27	12.0	8.0	1.0	3.5	2.0	4.5	12.0	14.5	20.0	22.0	23.0	15.5
28	13.0	8.5	2.0	3.5	2.0	4.5	13.5	14.5	19.0	22.0	23.0	15.5
29	12.0	8.5	4.0	3.5	---	4.0	13.5	14.5	19.0	22.0	22.0	14.0
30	12.0	8.5	3.5	3.5	---	4.0	15.0	14.5	18.0	22.0	22.0	18.0
31	11.0	---	3.5	3.5	---	3.5	---	15.5	---	21.5	22.0	---
MONTH	15.0	7.0	3.5	1.5	1.5	4.5	8.5	15.0	20.5	23.5	23.0	19.5
YEAR	MAX	25.5	MIN	0.5	MEAN	12.0						

01190015 FARMINGTON RIVER AT WINDSOR, CONN.

LOCATION.--Lat 41°51'25", long 72°38'21", Hartford County, at bridge on State Highway 159, 0.4 mi (0.6 km) north of Windsor.

DRAINAGE AREA.--594 mi^2 (1,538 km^2).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY 16...	0850	138	5.6	10	150	140	10	9.5	2.4	26	0	12
AUG. 13...	0810	154	4.2	0	100	20	20	11	3.1	25	0	12
SEP. 04...	1000	1950	5.0	10	130	20	10	10	2.2	29	0	11

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY 16...	13	.21	.33	.43	.66	.00	.28	.94	4.2	70	26.1	.10
AUG. 13...	13	.17	.29	.37	.74	.13	.42	1.2	5.1	79	32.4	.11
SEP. 04...	11	.20	.26	.33	.67	.03	.29	.96	4.3	76	400	.10

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY 16...	76	34	12	5.2	21	0	.01	4	4	.0	123
AUG. 13...	78	40	20	2.5	21	0	.00	1	2	.0	121
SEP. 04...	81	34	10	2.3	24	0	.01	6	4	.0	111

DATE	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 16...	6.9	23.0	21.0	7.4	82	54000	160	320	.0	5.7	3.2
AUG. 13...	7.2	20.5	20.0	7.9	86	14000	640	200	--	--	3.4
SEP. 04...	7.3	16.0	19.0	8.2	88	10000	2800	2700	7.0	.0	4.7

01190069 CONNECTICUT RIVER AT HARTFORD, CONN.

LOCATION.--Lat 41°46'36", long 72°39'29", Hartford County, at Penn Central Co. railroad bridge, at Hartford.

DRAINAGE AREA.--10,486 mi² (27,159 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JULY 17...	1155	4.3	10	80	30	10	12	1.5	36	0	9.0
AUG. 14...	1215	.6	0	60	10	0	15	2.7	42	0	14
SEP. 11...	1220	4.4	0	70	10	10	12	2.0	16	0	10

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JULY 17...	12	.11	.29	.37	.35	.28	.57	.92	4.1	62	.08
AUG. 14...	15	.12	.37	.48	.03	.63	1.0	1.0	4.6	91	.12
SEP. 11...	12	.12	.29	.37	.38	.20	.49	.87	3.9	81	.11

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JULY 17...	85	36	7	3.6	30	0	.01	1	5	.0	125
AUG. 14...	103	49	14	.0	34	0	.00	4	3	.0	152
SEP. 11...	88	38	25	1.3	13	0	.01	1	4	.0	122

DATE	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 17...	7.2	24.5	25.0	6.5	77	130000	18000	850	8.3	19	4.3
AUG. 14...	9.2	30.0	26.5	9.8	123	18000	600	38	34	69	6.4
SEP. 11...	7.3	26.0	21.0	7.6	84	58000	4800	140	18	1.0	7.1

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

01191510 PARK RIVER AT HARTFORD, CONN.

LOCATION.--Lat 41°45'50", long 72°41'13", Hartford County, at bridge on Broad Street, at Hartford.

DRAINAGE AREA.--73.0 mi² (189.1 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY												
16...	1405	28	7.6	10	130	250	10	35	10	87	0	28
AUG.												
13...	1510	11	8.2	10	100	90	20	78	15	121	0	37
SEP.												
05...	1015	92	9.5	10	140	100	20	28	7.2	26	0	25
12...	0930	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY												
16...	71	.27	.84	1.1	.62	.26	1.1	1.7	7.6	227	17.2	.31
AUG.												
13...	120	.45	.99	1.3	1.9	.31	1.3	3.2	14	373	11.3	.51
SEP.												
05...	35	.18	.44	.57	.81	.10	.54	1.4	6.0	205	50.9	.28
12...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY											
16...	284	130	57	5.5	71	0	.01	7	20	.2	410
AUG.											
13...	401	260	160	1.5	99	1	.01	4	1	.2	600
SEP.											
05...	225	100	78	1.0	21	0	.01	20	20	.0	277
12...	--	--	--	--	--	--	--	--	--	--	--

DATE	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
16...	7.4	28.0	25.0	5.6	67	B480000	20000	5000	2.0	5.0	6.7
AUG.											
13...	8.1	32.0	23.5	7.4	86	190000	21000	1900	2.0	5.5	6.1
SEP.											
05...	7.8	17.0	16.0	7.8	79	430000	12000	16000	6.0	.0	--
12...	--	--	--	--	--	--	--	--	--	--	7.5

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01192516 HOCKANUM RIVER AT EAST HARTFORD, CONN.

LOCATION.--Lat 41°45'22", long 72°38'36", Hartford County, at mouth at bridge on State Highway 2, at East Hartford.

DRAINAGE AREA.--76.1 mi² (197.1 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

REMARKS.--Figures of instantaneous discharge for gaging station at East Hartford, Conn. (sta 01192500) are used for this site.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY 16...	1520	62	11	10	220	200	20	23	4.0	79	0	34
AUG. 13...	1705	36	11	10	220	500	20	26	5.5	88	0	42
SEP. 04...	1435	360	6.4	10	150	140	20	13	2.7	40	0	19

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY 16...	38	2.0	5.6	7.2	2.2	.90	6.5	8.7	39	183	30.6	.25
AUG. 13...	42	2.2	4.9	6.3	.98	1.7	6.6	7.6	34	238	23.1	.32
SEP. 04...	21	.69	1.3	1.7	1.1	.40	1.7	2.8	12	115	112	.16

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY 16...	257	76	9	8.0	65	2	.01	6	6	.7	360
AUG. 13...	289	88	15	5.6	72	4	.01	20	30	1.1	640
SEP. 04...	176	44	11	4.0	33	2	.01	27	10	.0	185

DATE	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 16...	7.2	26.0	27.0	8.0	99	B310000	80000	9400	34	89	16
AUG. 13...	7.4	26.0	26.5	9.2	114	8000	8500	120	29	58	20
SEP. 04...	7.2	20.5	17.0	8.2	85	B460000	3400	6300	.1	7.0	6.8

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01192911 CONNECTICUT RIVER AT MIDDLETOWN, CONN.

LOCATION.--Lat 41°34'08", long 72°38'53", Middlesex County, at Penn Central Co. railroad bridge, at Middletown.

DRAINAGE AREA.--10,863 mi² (28,135 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JULY											
17...	1420	3.5	10	60	0	10	13	1.8	43	0	11
AUG.											
14...	1425	1.2	10	40	10	0	15	2.8	39	0	14
SEP.											
11...	1500	4.6	10	140	20	20	13	2.0	36	0	12

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JULY											
17...	14	.14	.37	.48	.33	.28	.65	.98	4.3	84	.11
AUG.											
14...	16	.15	.59	.76	.43	.41	1.0	1.4	6.3	95	.13
SEP.											
11...	13	.16	.41	.53	.46	.07	.48	.94	4.2	92	.13

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JULY											
17...	94	40	5	.9	35	0	.01	3	2	.0	137
AUG.											
14...	110	49	17	.6	32	0	.00	3	3	.0	142
SEP.											
11...	92	41	11	1.8	30	0	.01	1	10	.0	136

DATE	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
17...	7.9	28.0	26.0	7.8	95	16000	8200	850	19	46	5.1
AUG.											
14...	8.0	32.0	25.0	9.3	111	5200	280	4	21	32	6.4
SEP.											
11...	7.5	27.0	21.0	8.3	92	6200	400	29	27	1.0	9.5

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.

LOCATION.--Lat 41°32'30", long 72°33'13", Middlesex County, on pier of United Aircraft Corporation (formerly Connecticut Advanced Nuclear Engineering Laboratory, CANEL), 0.8 mi (1.3 km) south of Middle Haddam, and 6.1 mi (9.8 km) south of Middletown.

DRAINAGE AREA.--10,893 mi² (28,213 km²).

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1974.
Water temperatures: October 1967 to September 1970, September 1973 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum recorded, 399 micromhos Aug. 2; minimum recorded, 65 micromhos Dec. 30.
pH: Maximum recorded, 8.4 July 14, 15; minimum recorded, 5.2 Apr. 14.
Dissolved oxygen: Maximum recorded, 10.7 mg/l Dec. 24, 25; minimum recorded, 3.6 mg/l June 9.
Water temperatures: Maximum, 28.5°C Aug. 24, 25; minimum, freezing point on several days during winter periods.

Period of record:
Specific conductance: Maximum, 399 micromhos Aug. 2, 1974; minimum, 54 micromhos Mar. 9, 1968.
pH: Maximum 8.7 Apr. 9, 1969; minimum 5.2 Apr. 14, 1974.
Dissolved oxygen: Maximum 14.9 mg/l July 14, 16, 1970; minimum 0.6 mg/l Aug. 11, 1970.
Water temperatures: Maximum, 33.0°C July 12, 1970; minimum, freezing point on several days during winter periods.

REMARKS.--Digital water quality data collection system and monthly samples. Records of hourly-punched parameters 1967-70, 1973-74 available in the district office at Hartford, Conn. Available in Part 1 of this report are volumes of tidal interchange computed for a site 3.8 mi (6.1 km) upstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
11...	0910	--	120	42	--	--	--	--	--	--	--	--
11...	0915	4.8	80	50	15	2.0	42	0	8.7	1.7	10	13
NOV.												
07...	1040	5.7	--	300	12	2.1	31	0	--	--	11	13
DEC.												
12...	1010	5.2	--	40	9.2	1.8	22	0	--	--	7.7	13
JAN.												
16...	1000	5.9	170	70	12	1.8	24	0	--	--	12	15
FEB.												
13...	1030	5.4	160	150	11	22	26	0	--	--	12	13
MAR.												
13...	1030	5.0	120	30	8.6	1.5	23	0	--	--	6.8	11
APR.												
18...	1000	4.1	130	20	8.4	1.1	23	0	--	--	6.2	9.1
MAY												
15...	0945	4.6	140	30	6.1	1.2	19	0	--	--	5.0	8.5
JUNE												
12...	0950	4.3	120	30	12	1.9	27	0	--	--	9.9	13
JULY												
17...	0940	3.9	150	40	15	1.9	43	0	--	--	10	14
AUG.												
14...	0930	.5	30	10	15	2.2	41	0	--	--	15	14
SEP.												
11...	1015	4.7	50	40	14	1.9	42	0	--	--	11	13

DATE	DIS-SOL-VED SUL-FIDE (S) (MG/L)	TOTAL SUL-FIDE (S) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.											
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	.3	.14	--	--	--	--	.30	.39	.48
NOV.											
07...	--	--	--	.15	.14	.12	--	--	.26	.33	.54
DEC.											
12...	.1	--	--	.11	.11	.04	--	--	.31	.40	.41
JAN.											
16...	.0	--	--	.06	.10	.00	--	--	.30	.38	--
FEB.											
13...	.0	--	--	.10	.09	.05	--	--	.26	.33	.57
MAR.											
13...	.0	--	--	.07	.06	.04	--	--	.30	.39	.39
APR.											
18...	--	.0	--	.13	.13	--	.03	.00	.25	.32	.29
MAY											
15...	--	.9	--	.11	.02	--	.02	.07	.09	.12	.26
JUNE											
12...	--	.2	--	.13	.12	--	.06	.00	.13	.17	.49
JULY											
17...	--	--	--	.14	--	--	--	--	.43	.55	--
AUG.											
14...	--	--	--	.18	--	--	--	--	.65	.84	--
SEP.											
11...	--	--	--	.15	--	--	--	--	.34	.45	--

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESI- DUE (MG/L)	HARD- NESS (CA,MG) (MG/L)
OCT. 11...	.02	.50	.22	.52	1.0	4.5	--	76	.10	--	46
NOV. 07...	.02	.56	.22	.44	1.0	4.4	88	--	.12	--	39
DEC. 12...	.01	.42	.39	.61	1.0	4.6	85	--	.12	--	30
JAN. 16...	.02	--	.23	.53	--	--	87	--	.12	--	37
FEB. 13...	.02	.59	.37	.63	1.2	5.4	81	--	.11	--	118
MAR. 13...	.02	.41	.21	.51	.92	4.1	59	--	.08	--	28
APR. 18...	.01	.30	.18	.43	.73	3.2	--	--	--	--	26
MAY 15...	.02	.28	.22	.31	.59	2.6	--	--	--	--	20
JUNE 12...	.02	.51	.44	.61	1.1	5.0	--	--	--	--	38
JULY 17...	--	.36	.27	.70	1.0	4.6	89	--	.12	103	48
AUG. 14...	--	.27	.55	1.2	1.5	6.5	87	--	.12	249	47
SEP. 11...	--	.56	.20	.55	1.1	4.9	90	--	.12	101	43

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 11...	11	6.7	35	--	--	0	1	--	--	22	10
NOV. 07...	13	9.9	26	--	--	0	1	10	.0	10	10
DEC. 12...	12	2.8	18	--	.01	5	2	22	.0	1.0	3.5
JAN. 16...	14	5.8	24	--	.01	1	2	17	.0	4.5	5.0
FEB. 13...	97	6.6	21	--	.01	0	1	7	.0	.5	3.5
MAR. 13...	9	7.3	19	--	.01	2	2	4	.0	--	--
APR. 18...	7	5.8	19	--	.01	2	5	7	.0	--	--
MAY 15...	4	1.9	16	--	1.0	1	3	10	.0	--	--
JUNE 12...	16	5.6	22	--	.01	2	1	20	.0	--	6.1
JULY 17...	13	5.5	35	0	.01	--	3	7	.0	--	9.4
AUG. 14...	13	13	34	0	.01	--	4	4	.1	--	5.5
SEP. 11...	8	5.3	35	0	.01	--	1	4	.0	--	5.3

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.												
11...	161	7.0	11.5	16.5	6.8	63	3700	650	80	--	--	--
NOV.												
07...	135	6.7	7.5	8.5	8.5	73	23000	3300	700	--	--	16
DEC.												
12...	97	7.1	3.0	6.5	9.3	72	9000	8000	2700	--	--	19
JAN.												
16...	130	6.9	2.0	1.0	9.6	66	13000	3300	2500	--	--	11
FEB.												
13...	125	6.8	5.5	1.0	9.5	67	12000	2100	1400	--	--	11
MAR.												
13...	82	6.7	-5.0	1.5	8.2	57	11000	2500	680	--	--	13
APR.												
16...	82	6.8	17.5	6.5	8.3	67	31000	1300	280	--	--	16
MAY												
15...	70	7.2	21.0	10.5	7.6	68	26000	1200	1400	--	--	15
JUNE												
12...	104	6.9	23.0	23.5	6.8	80	8500	520	25	--	--	15
JULY												
17...	110	7.1	22.0	26.5	8.3	104	22000	1000	140	16	35	--
AUG.												
14...	122	6.7	27.0	25.0	8.0	96	16000	180	28	23	36	--
SEP.												
11...	120	7.1	23.0	20.0	8.0	88	6200	500	40	25	2.5	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)
OCT.											
11...	60	0	<2	20	0	3	--	<2	5	0	<2
11...	--	--	--	--	--	--	0	--	10	--	--
JULY											
17...	--	--	--	--	--	--	--	--	10	--	--
AUG.											
14...	--	--	--	--	--	--	--	--	10	--	--
SEP.											
11...	--	--	--	--	--	--	--	--	0	--	--

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
OCT.											
11...	0	2	0	8	0	82	<2	<2	2.0	20	<3
11...	--	1	--	--	--	--	--	--	--	40	--
JULY											
17...	--	--	--	--	--	--	--	--	--	30	--
AUG.											
14...	--	--	--	--	--	--	--	--	--	10	--
SEP.											
11...	--	--	--	--	--	--	--	--	--	10	--

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)
OCT. 11...	.00	.0	.0	1	.00	.1	.00	.1	.00	1.0	.00	.3

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)
OCT. 11...	.00	.0	.00	.0	.00	.0	.00	.0	0	0	.00	0

DATE	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	PCB (UG/L)
OCT. 11...	.00	0	.00	0	.01	.00	.00	.00	.00	.00	.00	.0

DATE	PCB IN BOTTOM DE-POSITS (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	IN-ORGANIC CARBON IN BED MA-TERIAL (G/KG)	ORGANIC CARBON IN BED MA-TERIAL (C) (G/KG)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)
OCT. 11...	10	1	2	78	95	4.4	.1	130	.2	1.5	0	0

DATE	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL STRON-TIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
OCT. 11...	7	2	7	3100	<5	95	.0	10	0	2	25

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	130	116	124	81	72	77
2	---	---	---	---	---	---	129	115	122	88	82	85
3	---	---	---	---	---	---	132	104	117	89	81	86
4	---	---	---	---	---	---	311	108	135	95	84	90
5	---	---	---	---	---	---	138	109	121	113	91	102
6	---	---	---	---	---	---	144	118	132	111	99	104
7	---	---	---	---	---	---	148	127	131	104	97	99
8	---	---	---	---	---	---	---	---	---	107	97	102
9	---	---	---	---	---	---	---	---	---	105	100	102
10	---	---	---	---	---	---	---	---	---	107	102	104
11	---	---	---	---	---	---	---	---	---	113	101	105
12	---	---	---	---	---	---	98	95	74	129	106	116
13	---	---	---	---	---	---	98	93	95	151	128	140
14	---	---	---	---	---	---	103	96	99	143	134	138
15	---	---	---	---	---	---	107	100	103	136	129	133
16	---	---	---	---	---	---	103	97	100	138	127	131
17	---	---	---	---	---	---	100	97	98	135	125	129
18	---	---	---	---	---	---	133	96	121	133	128	131
19	---	---	---	---	---	---	136	121	128	143	129	135
20	---	---	---	---	---	---	121	114	116	182	135	152
21	---	---	---	138	134	136	140	116	121	186	172	179
22	---	---	---	142	137	140	138	84	110	195	175	188
23	---	---	---	146	142	144	82	67	71	193	166	178
24	---	---	---	149	144	146	72	67	70	184	147	164
25	---	---	---	148	144	147	69	66	68	149	137	144
26	---	---	---	150	146	148	75	67	70	140	130	135
27	---	---	---	147	142	144	81	74	78	138	130	134
28	---	---	---	143	140	142	79	67	72	139	126	132
29	---	---	---	144	136	140	69	67	68	124	102	113
30	---	---	---	138	129	133	69	65	67	104	97	101
31	---	---	---	---	---	---	72	67	69	100	94	98
MONTH	---	---	---	---	---	---	311	65	99	195	72	123

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	102	98	100	---	---	---	155	136	140	90	84	87
2	102	95	97	---	---	---	132	121	126	85	82	84
3	107	94	98	---	---	---	124	117	121	84	82	83
4	110	101	105	---	---	---	124	117	120	82	76	79
5	113	110	111	---	---	---	124	106	115	88	76	78
6	---	---	---	---	---	---	105	92	98	82	74	77
7	---	---	---	---	---	---	91	78	83	82	76	79
8	---	---	---	---	---	---	77	70	73	89	78	83
9	---	---	---	---	---	---	79	71	74	93	84	89
10	---	---	---	---	---	---	84	78	82	98	89	92
11	---	---	---	---	---	---	87	82	85	97	92	94
12	---	---	---	---	---	---	88	81	84	92	86	89
13	---	---	---	---	---	---	89	82	85	93	85	88
14	---	---	---	---	---	---	94	85	91	85	73	79
15	---	---	---	---	---	---	97	90	94	74	67	70
16	---	---	---	---	---	---	93	78	86	78	68	73
17	---	---	---	---	---	---	78	75	77	81	76	78
18	---	---	---	---	---	---	80	76	78	84	76	81
19	---	---	---	---	---	---	84	77	79	87	79	83
20	---	---	---	---	---	---	88	83	84	89	81	84
21	---	---	---	---	---	---	87	81	85	90	83	87
22	---	---	---	---	---	---	87	81	85	371	84	174
23	---	---	---	---	---	---	94	84	88	378	90	223
24	---	---	---	---	---	---	93	89	90	109	91	102
25	---	---	---	---	---	---	89	84	87	112	103	108
26	---	---	---	---	---	---	87	79	83	106	94	100
27	---	---	---	---	---	---	79	76	78	108	98	99
28	---	---	---	---	---	---	81	76	79	98	92	94
29	---	---	---	112	108	110	254	75	124	93	88	91
30	---	---	---	116	110	113	91	76	85	91	83	86
31	---	---	---	144	113	126	---	---	---	95	85	89
MONTH	---	---	---	---	---	---	254	70	92	378	67	94

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	98	89	93	110	106	108	130	116	126	148	137	143
2	98	91	95	111	106	108	399	111	152	138	126	135
3	98	92	95	114	107	111	127	122	124	---	---	---
4	107	95	98	109	103	105	128	124	126	---	---	---
5	104	99	101	104	98	100	136	126	129	---	---	---
6	106	102	104	111	103	106	137	127	132	---	---	---
7	108	105	106	102	79	90	133	125	131	---	---	---
8	112	107	109	81	76	79	129	122	127	---	---	---
9	---	---	---	86	77	81	124	122	123	---	---	---
10	---	---	---	98	86	91	127	122	124	---	---	---
11	---	---	---	106	99	103	128	123	125	128	123	125
12	---	---	---	109	104	107	125	122	124	127	123	125
13	---	---	---	110	106	107	128	125	126	128	120	123
14	---	---	---	108	105	106	133	126	130	121	111	117
15	---	---	---	107	103	106	138	133	136	216	107	121
16	---	---	---	108	103	105	141	137	139	122	118	120
17	---	---	---	116	106	113	146	139	142	122	115	119
18	---	---	---	121	116	118	150	141	148	121	115	119
19	---	---	---	117	109	114	151	148	150	120	118	120
20	---	---	---	112	103	108	153	147	150	120	118	119
21	---	---	---	108	105	107	151	147	149	118	116	117
22	---	---	---	110	106	108	152	146	149	125	115	119
23	---	---	---	112	110	111	149	146	148	---	---	---
24	---	---	---	113	111	112	148	146	146	---	---	---
25	---	---	---	112	109	111	145	142	143	---	---	---
26	---	---	---	116	110	113	145	142	143	---	---	---
27	---	---	---	121	115	118	145	139	142	---	---	---
28	---	---	---	126	121	123	143	138	142	---	---	---
29	---	---	---	126	113	122	148	142	145	---	---	---
30	---	---	---	125	122	123	148	146	147	---	---	---
31	---	---	---	129	116	126	150	145	147	---	---	---
MONTH	---	---	---	129	76	108	399	111	138	---	---	---
YEAR	399	65	111									

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.8	7.2	7.5	---	---	---	---	---	---	---	---	---
2	7.7	7.0	7.4	---	---	---	---	---	---	---	---	---
3	7.2	6.4	6.8	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	7.2	7.0	7.0
6	7.6	6.1	7.2	---	---	---	---	---	---	7.1	7.0	7.0
7	7.4	6.1	6.9	---	---	---	---	---	---	7.1	7.0	7.0
8	7.5	6.3	7.1	---	---	---	---	---	---	7.3	7.0	7.0
9	7.5	6.2	6.9	---	---	---	---	---	---	7.1	7.0	7.0
10	8.1	6.1	7.1	---	---	---	---	---	---	7.1	7.0	7.1
11	7.3	6.1	7.2	---	---	---	---	---	---	7.1	7.0	7.1
12	7.4	7.0	7.3	---	---	---	---	---	---	7.1	7.0	7.0
13	7.1	6.8	7.0	---	---	---	---	---	---	7.1	7.0	7.0
14	7.3	6.4	6.9	---	---	---	---	---	---	7.2	7.0	7.1
15	7.3	7.0	7.1	---	---	---	---	---	---	7.2	7.0	7.1
16	7.2	6.6	7.1	---	---	---	---	---	---	---	---	---
17	7.2	7.1	7.1	---	---	---	---	---	---	---	---	---
18	7.1	7.0	7.1	---	---	---	---	---	---	---	---	---
19	7.2	7.0	7.1	---	---	---	---	---	---	---	---	---
20	7.1	6.9	7.0	---	---	---	---	---	---	---	---	---
21	7.1	6.9	7.0	---	---	---	---	---	---	---	---	---
22	7.2	6.9	7.0	---	---	---	---	---	---	---	---	---
23	7.3	7.0	7.1	---	---	---	---	---	---	---	---	---
24	7.3	7.0	7.2	---	---	---	---	---	---	---	---	---
25	7.4	7.0	7.2	---	---	---	---	---	---	---	---	---
26	7.3	7.0	7.2	---	---	---	---	---	---	---	---	---
27	7.5	7.1	7.3	---	---	---	---	---	---	---	---	---
28	7.5	7.4	7.5	---	---	---	---	---	---	---	---	---
29	7.5	6.9	7.4	---	---	---	---	---	---	---	---	---
30	7.5	6.3	7.1	---	---	---	---	---	---	---	---	---
31	7.3	7.1	7.2	---	---	---	---	---	---	---	---	---
MONTH	8.1	6.1	7.1	---	---	---	---	---	---	---	---	---

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	6.8	6.6	6.7	6.9	6.8	6.8
2	---	---	---	---	---	---	7.6	6.3	6.8	7.0	6.8	6.9
3	---	---	---	---	---	---	7.0	6.5	6.7	6.9	6.7	6.8
4	---	---	---	---	---	---	---	---	---	6.9	6.7	6.8
5	---	---	---	---	---	---	---	---	---	7.0	6.8	6.9
6	---	---	---	---	---	---	6.7	6.3	6.6	---	---	---
7	---	---	---	---	---	---	6.9	6.7	6.8	---	---	---
8	---	---	---	---	---	---	6.8	6.5	6.7	---	---	---
9	---	---	---	---	---	---	7.3	6.6	6.7	---	---	---
10	---	---	---	---	---	---	7.0	6.8	6.9	6.7	6.3	6.5
11	---	---	---	---	---	---	6.9	6.6	6.8	7.0	6.6	6.8
12	---	---	---	---	---	---	6.8	6.6	6.7	---	---	---
13	---	---	---	---	---	---	6.5	6.3	6.4	7.0	6.6	6.1
14	---	---	---	---	---	---	6.5	5.2	6.3	6.9	6.0	6.7
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	6.8	6.6	6.7	---	---	---
17	---	---	---	---	---	---	6.9	6.7	6.8	---	---	---
18	---	---	---	---	---	---	7.3	6.7	6.9	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	7.2	6.9	7.1	---	---	---
25	---	---	---	---	---	---	7.3	7.1	7.2	---	---	---
26	---	---	---	---	---	---	7.3	7.2	7.3	---	---	---
27	---	---	---	---	---	---	7.3	7.2	7.2	---	---	---
28	---	---	---	---	---	---	7.3	7.1	7.2	---	---	---
29	---	---	---	7.0	6.9	7.0	7.2	6.7	7.1	---	---	---
30	---	---	---	7.0	6.7	6.8	---	---	---	---	---	---
31	---	---	---	6.7	6.6	6.6	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	7.5	5.6	6.7	---	---	---
6	---	---	---	---	---	---	7.3	6.8	7.0	---	---	---
7	---	---	---	---	---	---	7.0	6.5	6.7	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	7.5	7.3	7.6	---	---	---	---	---	---
12	---	---	---	7.7	7.2	7.6	---	---	---	---	---	---
13	---	---	---	7.0	7.0	7.5	---	---	---	---	---	---
14	---	---	---	8.6	7.2	7.8	---	---	---	---	---	---
15	---	---	---	8.6	6.3	7.5	---	---	---	---	---	---
16	---	---	---	8.3	6.8	7.5	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	7.6	7.1	7.3	---	---	---	---	---	---
25	---	---	---	7.3	6.7	7.0	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	8.6	5.2	7.0									

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.2	7.2	7.8	---	---	---	7.2	6.9	7.1	9.3	9.0	9.1
2	7.7	7.0	7.4	---	---	---	7.4	7.2	7.2	9.0	8.7	8.9
3	6.8	6.2	6.6	---	---	---	7.5	7.2	7.4	9.3	8.6	9.0
4	6.4	5.9	6.3	---	---	---	7.6	7.4	7.5	9.3	9.0	9.2
5	5.7	5.3	5.7	---	---	---	7.6	6.8	7.3	9.3	8.9	9.1
6	5.6	4.9	5.4	---	---	---	7.4	6.7	7.1	9.0	8.8	8.9
7	5.1	4.2	4.6	---	---	---	7.1	6.7	6.9	9.0	8.7	8.9
8	5.0	4.3	4.5	---	---	---	---	---	---	9.0	8.8	8.9
9	6.8	6.3	6.6	---	---	---	---	---	---	9.0	8.6	8.9
10	7.1	6.5	6.8	---	---	---	---	---	---	9.0	8.8	8.9
11	8.5	7.6	8.2	---	---	---	---	---	---	9.2	8.9	9.1
12	8.2	7.4	7.8	---	---	---	9.1	8.9	5.5	9.3	8.9	9.1
13	7.9	7.2	7.7	---	---	---	9.1	8.9	9.0	9.2	9.0	9.1
14	7.9	7.2	7.5	---	---	---	9.1	8.9	9.0	9.4	9.1	9.3
15	8.1	7.3	7.6	---	---	---	9.0	8.8	8.9	9.3	9.0	9.2
16	8.9	7.1	8.1	---	---	---	9.2	8.9	9.0	9.4	8.2	8.8
17	8.5	7.9	8.2	---	---	---	9.5	9.2	9.3	8.5	8.3	8.4
18	8.4	7.9	8.2	---	---	---	9.7	9.5	9.6	8.5	8.3	8.4
19	8.7	7.6	8.0	---	---	---	9.9	9.6	9.7	8.5	8.1	8.3
20	8.0	7.4	7.7	---	---	---	9.9	9.6	9.8	8.5	8.2	8.3
21	8.2	7.7	7.8	7.2	6.8	6.9	9.9	9.5	9.7	8.3	8.0	8.2
22	8.1	7.4	7.8	6.8	6.7	6.7	9.8	9.3	9.5	8.1	8.0	8.1
23	8.2	7.7	7.9	6.7	6.2	6.4	10.5	9.8	10.2	8.2	7.9	8.1
24	8.1	7.4	7.6	6.3	5.8	6.0	10.7	10.4	10.5	8.1	8.0	8.1
25	8.1	7.5	7.8	6.2	5.8	6.1	10.7	10.4	10.5	8.4	8.1	8.2
26	8.0	6.9	7.6	6.2	6.0	6.1	10.6	10.2	10.4	8.4	8.3	8.3
27	7.9	7.1	7.6	6.2	6.0	6.1	10.2	9.8	10.0	8.4	8.1	8.2
28	7.6	7.2	7.4	6.5	6.0	6.3	9.9	9.7	9.8	8.2	8.0	8.1
29	7.4	6.7	7.1	6.6	6.2	6.4	9.9	9.6	9.8	8.4	8.1	8.3
30	7.3	6.8	7.1	7.0	6.0	6.5	9.7	9.3	9.4	8.5	8.3	8.4
31	6.9	4.8	5.7	---	---	---	9.4	9.1	9.2	8.7	8.2	8.4
MONTH	8.9	4.2	7.2	---	---	---	10.7	6.7	8.9	9.4	7.9	8.7

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.4	8.1	8.2	---	---	---	8.4	8.3	8.4	8.3	8.0	8.1
2	8.6	7.3	8.4	---	---	---	8.6	8.2	8.4	8.2	7.9	8.0
3	8.7	6.4	8.5	---	---	---	8.7	8.2	8.4	8.5	7.9	8.2
4	8.7	8.3	8.6	---	---	---	8.4	8.0	8.2	8.4	8.2	8.3
5	8.8	8.5	8.6	---	---	---	8.0	7.8	7.9	8.5	8.2	8.3
6	---	---	---	---	---	---	8.4	7.9	8.2	8.5	8.1	8.3
7	---	---	---	---	---	---	9.2	8.5	8.9	8.3	7.9	8.2
8	---	---	---	---	---	---	9.2	8.8	9.0	8.0	7.6	7.8
9	---	---	---	---	---	---	9.3	8.9	9.1	7.6	7.2	7.4
10	---	---	---	---	---	---	9.3	9.0	9.2	7.6	7.1	7.3
11	---	---	---	---	---	---	9.1	8.4	8.8	7.5	7.2	7.3
12	---	---	---	---	---	---	9.0	8.7	8.9	7.7	7.4	7.6
13	---	---	---	---	---	---	8.9	8.4	8.7	7.7	7.4	7.6
14	---	---	---	---	---	---	8.5	8.2	8.3	7.7	7.5	7.5
15	---	---	---	---	---	---	8.4	8.0	8.2	7.8	7.4	7.5
16	---	---	---	---	---	---	8.2	7.9	8.1	7.8	7.2	7.5
17	---	---	---	---	---	---	8.5	7.8	8.2	7.6	6.9	7.3
18	---	---	---	---	---	---	9.1	8.3	8.8	7.3	6.9	7.0
19	---	---	---	---	---	---	9.0	8.4	8.8	7.2	6.7	7.0
20	---	---	---	---	---	---	9.0	8.2	8.7	7.2	6.7	7.0
21	---	---	---	---	---	---	8.8	7.6	7.9	7.1	6.6	6.9
22	---	---	---	---	---	---	8.2	7.7	8.0	6.9	6.4	6.6
23	---	---	---	---	---	---	7.9	7.5	7.7	6.8	6.4	6.6
24	---	---	---	---	---	---	8.2	7.5	7.8	6.7	6.4	6.5
25	---	---	---	---	---	---	8.3	7.9	8.1	6.7	6.3	6.5
26	---	---	---	---	---	---	8.2	7.8	8.0	8.1	6.5	7.3
27	---	---	---	---	---	---	8.5	8.0	8.2	8.5	8.1	8.3
28	---	---	---	---	---	---	8.6	7.9	8.1	8.8	8.4	8.6
29	---	---	---	8.4	8.3	8.4	9.1	8.1	8.6	9.0	8.7	8.8
30	---	---	---	8.4	8.2	8.3	9.0	8.1	8.3	9.0	8.5	8.8
31	---	---	---	8.5	8.2	8.4	---	---	---	8.7	8.1	8.4
MONTH	---	---	---	---	---	---	9.3	7.5	8.4	9.0	6.3	7.6

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.1	7.6	7.9	---	---	---	8.4	6.7	7.4	7.0	4.5	5.6
2	7.6	7.1	7.3	---	---	---	9.1	7.4	8.2	7.0	5.7	6.3
3	7.3	7.0	7.2	---	---	---	8.4	7.7	8.0	7.2	6.4	6.8
4	7.2	6.4	6.8	---	---	---	8.3	7.5	7.9	7.7	6.9	7.2
5	6.4	6.0	6.1	---	---	---	8.4	7.1	7.7	7.4	6.4	7.0
6	6.6	5.7	6.2	---	---	---	8.0	7.0	7.5	7.4	6.9	7.2
7	6.8	6.4	6.6	---	---	---	8.2	7.3	7.8	8.0	6.7	7.4
8	8.5	6.3	6.7	---	---	---	9.9	8.0	9.1	8.2	7.3	7.7
9	8.8	3.6	6.2	---	---	---	9.3	7.9	8.5	8.9	7.8	8.4
10	---	---	---	---	---	---	8.6	7.3	8.1	8.8	7.7	8.3
11	---	---	---	---	---	---	8.7	7.2	9.2	9.5	7.7	8.6
12	---	---	---	---	---	---	8.1	6.6	7.4	9.5	7.6	8.5
13	---	---	---	---	---	---	8.2	6.7	7.5	9.3	7.6	8.4
14	---	---	---	---	---	---	8.3	6.0	7.5	9.0	7.3	8.1
15	---	---	---	---	---	---	8.8	6.5	7.5	8.4	7.0	7.6
16	---	---	---	---	---	---	7.8	6.0	7.0	8.3	6.6	7.6
17	---	---	---	9.3	7.3	8.6	6.3	5.7	6.0	8.3	7.3	7.7
18	---	---	---	8.7	7.4	8.0	5.8	5.2	5.5	7.7	6.8	7.2
19	---	---	---	7.6	6.1	6.8	5.4	4.8	5.2	8.9	6.7	7.9
20	---	---	---	8.5	6.5	7.5	5.5	4.7	5.1	8.4	7.4	7.9
21	---	---	---	9.4	7.2	8.1	5.4	4.7	5.1	7.6	6.5	7.1
22	---	---	---	9.4	7.9	8.6	6.2	4.9	5.7	6.7	6.2	6.5
23	---	---	---	9.5	7.8	8.6	6.9	5.8	6.4	6.0	5.3	5.7
24	---	---	---	8.6	7.6	8.1	7.9	6.7	7.1	6.8	6.0	6.4
25	---	---	---	8.4	7.7	8.0	8.4	6.8	7.4	7.7	7.1	7.4
26	---	---	---	9.1	7.4	8.1	7.7	6.8	7.2	8.0	7.1	7.5
27	---	---	---	9.2	8.0	8.5	7.5	6.6	7.1	8.5	7.3	7.8
28	---	---	---	8.7	7.9	8.3	7.4	6.1	6.8	8.3	7.4	7.8
29	---	---	---	7.7	6.9	7.3	6.2	5.1	5.8	8.0	7.1	7.6
30	---	---	---	6.8	6.1	6.6	6.4	5.2	5.7	7.2	6.6	6.9
31	---	---	---	7.4	5.9	6.5	5.6	4.1	4.9	---	---	---
MONTH	---	---	---	---	---	---	9.9	4.1	7.0	9.5	4.5	7.4
YEAR	10.7	3.6	7.8									

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	19.0	19.5	---	---	---	7.0	6.0	6.5	1.5	1.0	1.5
2	20.0	19.0	19.5	---	---	---	6.5	5.0	5.5	1.0	1.0	1.0
3	20.0	19.0	19.0	---	---	---	6.5	4.5	5.0	1.0	0.5	1.0
4	20.5	19.0	19.5	---	---	---	8.5	4.0	5.0	1.0	0.5	1.0
5	21.0	19.5	20.0	---	---	---	8.5	5.0	6.0	1.0	0.5	1.0
6	20.0	19.0	19.5	---	---	---	8.0	5.5	7.0	1.0	0.5	0.5
7	19.5	17.5	18.5	---	---	---	8.5	6.5	7.0	2.0	0.5	0.5
8	18.5	17.0	18.0	---	---	---	---	---	---	2.0	0.0	0.5
9	18.5	15.0	17.5	---	---	---	---	---	---	1.5	0.0	0.0
10	18.5	16.5	17.5	---	---	---	---	---	---	1.0	0.0	0.0
11	17.0	15.5	16.5	---	---	---	---	---	---	2.5	0.0	0.5
12	17.0	15.5	16.0	---	---	---	5.0	3.5	4.0	1.0	0.0	0.0
13	17.0	15.5	16.0	---	---	---	4.5	3.0	3.5	0.5	0.0	0.0
14	17.0	15.5	16.0	---	---	---	5.5	3.5	4.0	1.5	0.0	0.0
15	16.5	15.5	16.0	---	---	---	4.5	3.5	4.0	2.0	0.0	0.5
16	16.0	14.5	15.5	---	---	---	3.5	2.5	3.0	2.0	0.0	0.5
17	15.5	14.5	15.0	---	---	---	2.5	1.5	2.0	1.0	0.5	0.5
18	14.5	13.5	14.0	---	---	---	1.5	0.5	0.5	1.0	0.5	0.5
19	14.0	13.0	13.5	---	---	---	0.5	0.0	0.0	2.0	0.5	1.0
20	13.5	12.0	12.5	---	---	---	1.0	0.0	0.0	1.0	0.5	0.5
21	13.0	11.5	12.0	7.0	5.5	6.0	2.5	0.5	1.5	1.5	0.5	1.0
22	13.0	11.5	12.0	7.5	6.0	6.5	2.5	0.0	1.0	1.5	0.5	0.5
23	13.5	11.5	12.5	8.0	6.0	6.5	0.0	0.0	0.0	1.5	0.5	1.0
24	13.5	12.0	13.0	8.5	6.5	7.5	0.0	0.0	0.0	1.0	0.5	1.0
25	14.5	12.5	13.5	8.5	6.5	7.5	0.0	0.0	0.0	1.0	0.5	1.0
26	15.0	13.0	14.0	8.0	6.5	7.0	0.0	0.0	0.0	1.5	1.0	1.5
27	15.0	13.0	14.5	8.0	6.5	7.0	0.5	0.0	0.5	3.0	1.5	2.0
28	14.5	14.0	14.0	8.5	6.5	7.0	1.0	0.5	1.0	3.0	2.0	2.5
29	14.0	13.0	13.5	8.0	7.0	7.5	1.0	1.0	1.0	2.5	2.0	2.0
30	14.0	13.0	13.5	7.5	6.5	7.0	1.5	1.0	1.5	2.0	2.0	2.0
31	13.5	12.5	13.0	---	---	---	1.5	1.0	1.5	2.5	2.0	2.5
MONTH	21.0	11.5	15.5	---	---	---	8.5	0.0	2.5	3.0	0.0	1.0

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	2.0	2.5	---	---	---	4.5	3.0	3.5	12.5	11.5	12.0
2	2.0	1.0	1.5	---	---	---	5.5	4.0	4.5	12.5	11.5	12.0
3	1.0	0.5	0.5	---	---	---	7.0	4.5	5.5	12.5	12.0	12.0
4	1.0	0.5	0.5	---	---	---	8.5	6.0	7.0	12.5	11.5	12.0
5	1.0	0.0	0.5	---	---	---	8.5	7.5	8.0	12.0	11.5	11.5
6	---	---	---	---	---	---	7.5	6.0	7.0	11.5	11.0	11.0
7	---	---	---	---	---	---	6.0	5.0	5.5	11.5	10.5	11.0
8	---	---	---	---	---	---	5.0	5.0	5.0	12.0	11.0	11.5
9	---	---	---	---	---	---	5.0	4.5	4.5	13.5	11.5	12.5
10	---	---	---	---	---	---	4.5	4.0	4.0	13.5	12.0	12.5
11	---	---	---	---	---	---	5.0	4.0	4.5	13.0	12.0	12.5
12	---	---	---	---	---	---	5.5	4.5	5.0	13.0	12.0	12.5
13	---	---	---	---	---	---	5.5	5.0	5.5	12.5	12.5	12.5
14	---	---	---	---	---	---	6.0	5.5	5.5	12.5	12.0	12.5
15	---	---	---	---	---	---	7.0	6.0	6.5	12.5	12.0	12.5
16	---	---	---	---	---	---	7.5	6.5	7.0	14.5	12.5	13.5
17	---	---	---	---	---	---	7.5	7.0	7.5	16.5	14.5	15.5
18	---	---	---	---	---	---	8.0	7.5	8.0	17.5	16.0	17.0
19	---	---	---	---	---	---	9.0	8.0	8.5	18.0	16.5	17.5
20	---	---	---	---	---	---	9.0	8.5	9.0	18.5	17.0	18.0
21	---	---	---	---	---	---	10.0	8.5	9.5	19.0	17.0	18.0
22	---	---	---	---	---	---	10.5	9.5	10.0	19.5	17.5	18.5
23	---	---	---	---	---	---	11.0	10.5	11.0	19.0	18.0	18.5
24	---	---	---	---	---	---	11.0	10.0	10.5	18.5	17.0	17.5
25	---	---	---	---	---	---	10.0	9.5	9.5	17.0	16.0	16.5
26	---	---	---	---	---	---	10.5	10.0	10.0	15.5	15.0	15.5
27	---	---	---	---	---	---	10.0	9.5	9.5	15.0	14.0	14.5
28	---	---	---	---	---	---	10.5	9.0	10.0	14.0	13.5	14.0
29	---	---	---	4.0	3.0	3.5	11.5	10.0	10.5	13.5	13.0	13.5
30	---	---	---	3.5	2.5	3.0	12.5	10.5	12.0	14.0	13.0	13.5
31	---	---	---	3.5	2.5	3.0	---	---	---	15.5	13.5	14.5
MONTH	---	---	---	---	---	---	12.5	3.0	7.5	19.5	10.5	14.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	14.5	15.5	23.5	23.0	23.5	25.5	24.5	25.0	25.0	23.5	24.0
2	15.5	15.0	15.5	24.5	23.0	23.5	26.0	24.5	25.5	24.5	23.5	24.0
3	17.0	15.0	16.0	25.5	23.5	24.5	26.5	25.5	26.0	24.0	23.0	23.5
4	18.5	16.0	17.5	26.5	24.5	25.5	27.0	26.0	26.5	23.0	20.5	21.5
5	20.0	17.5	19.0	27.0	25.0	26.0	27.0	26.0	26.5	21.5	20.0	20.5
6	20.5	18.5	19.5	27.0	26.0	26.5	27.5	26.0	26.5	21.5	20.0	20.5
7	21.0	19.5	20.5	26.5	25.0	25.5	26.5	25.5	26.0	20.5	19.5	20.0
8	21.5	20.0	20.5	26.0	24.5	25.5	27.0	25.5	26.0	21.0	19.0	19.5
9	---	---	---	27.0	25.0	25.5	26.0	25.5	26.0	21.0	20.0	20.5
10	---	---	---	27.5	26.0	26.5	25.5	25.0	25.5	22.0	20.0	21.0
11	---	---	---	27.5	26.5	27.0	25.5	24.5	25.0	23.0	21.0	22.0
12	---	---	---	27.0	26.0	26.5	26.5	25.0	25.5	23.5	22.0	22.5
13	---	---	---	26.5	25.5	25.5	26.5	25.5	26.0	24.0	23.0	23.5
14	---	---	---	26.5	25.5	26.0	27.0	25.5	26.5	24.5	23.5	24.0
15	---	---	---	27.0	25.5	26.5	27.0	26.0	26.5	24.0	23.0	23.5
16	---	---	---	27.5	26.5	27.0	27.5	26.5	27.0	24.0	22.5	23.5
17	---	---	---	27.5	26.0	26.5	27.5	27.0	27.0	23.0	22.0	22.5
18	---	---	---	27.0	26.0	26.5	27.5	26.5	27.0	23.0	22.0	22.5
19	---	---	---	27.0	25.5	26.0	28.0	26.5	27.0	23.0	22.0	22.5
20	---	---	---	26.0	25.0	25.5	27.5	26.5	27.0	23.5	22.0	22.5
21	---	---	---	25.5	24.5	25.0	27.5	26.0	27.0	23.5	22.5	22.5
22	---	---	---	26.0	24.5	25.0	28.0	27.0	27.5	22.5	21.5	22.0
23	---	---	---	25.5	25.0	25.0	28.0	27.0	27.5	22.0	20.0	21.0
24	---	---	---	25.5	24.5	25.0	28.5	27.5	27.5	20.0	19.0	19.5
25	---	---	---	25.5	24.5	25.0	28.5	27.0	27.5	19.0	17.5	18.5
26	---	---	---	24.5	24.0	24.0	28.0	27.0	27.0	18.5	17.5	18.0
27	---	---	---	24.5	23.5	24.0	27.5	26.5	26.5	19.0	17.5	18.0
28	---	---	---	25.0	24.0	24.5	27.0	26.0	26.5	19.5	18.0	18.5
29	---	---	---	25.0	24.0	24.5	27.0	26.0	26.5	19.5	18.5	19.0
30	---	---	---	25.5	24.0	24.5	26.0	25.0	25.5	19.5	18.5	19.0
31	---	---	---	25.0	24.0	24.5	25.5	24.0	24.5	---	---	---
MONTH	---	---	---	27.5	23.0	25.5	28.5	24.0	26.5	25.0	17.5	21.5
YEAR	28.5	0.0	14.0									

01193500 SALMON RIVER NEAR EAST HAMPTON, CONN.

LOCATION.--Lat 41°33'11", long 72°26'57", Middlesex County, at gaging station on right bank at Old Comstock Bridge, 150 ft (46 m) downstream from New London-Middlesex County Line, 0.6 mi (1.0 km) downstream from Dickinson Creek, and 3.5 mi (5.6 km) southeast of East Hampton.

DRAINAGE AREA.--102 mi² (264 km²).

PERIOD OF RECORD.--Chemical analyses: October 1960 to September 1961, June 1968 to September 1974. Water temperatures: October 1960 to September 1962.

REMARKS.--Records of iron, specific conductance, and pH of daily samples for 1960-61 available in district office at Hartford, Conn.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
09...	0915	26	9.5	190	10	7.0	2.0	17	0	8.0	2.2	14
09...	0920	26	--	230	6	--	--	--	--	--	--	--
NOV.												
05...	0930	100	9.9	--	0	5.5	1.8	14	0	--	--	10
DEC.												
10...	1000	--	6.5	--	160	4.0	1.4	6	0	--	--	8.1
JAN.												
14...	1005	120	8.1	950	90	5.2	1.6	9	0	--	--	11
FEB.												
11...	1000	170	7.6	80	1500	5.4	1.7	6	0	--	--	11
MAR.												
11...	1000	155	6.9	110	40	4.5	1.5	7	0	--	--	10
APR.												
16...	1000	600	4.8	110	10	3.8	1.0	7	0	--	--	7.7
MAY												
13...	1010	492	5.4	180	30	5.0	1.2	9	0	--	--	7.8
JUNE												
10...	0940	59	7.8	210	10	6.2	1.8	10	0	--	--	14
JULY												
17...	1430	45	7.0	320	30	6.0	1.7	16	0	--	--	15
AUG.												
14...	1325	13	7.3	100	10	6.6	1.8	14	0	--	--	15
SEP.												
11...	1500	50	6.7	150	10	6.3	1.6	14	0	--	--	11

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	TOTAL SULFIDE (S) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.												
09...	11	--	--	.3	.01	--	--	--	--	.11	.14	.16
09...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
05...	12	--	--	--	.04	.02	.02	--	--	.01	.01	.16
DEC.												
10...	12	.1	--	--	.02	.01	.00	--	--	.08	.10	.26
JAN.												
14...	12	.1	--	--	.01	.00	.00	--	--	.03	.04	.52
FEB.												
11...	10	.0	--	--	.00	.00	.00	--	--	.05	.06	.52
MAR.												
11...	11	.0	--	--	.01	.01	.00	--	--	.15	.19	.40
APR.												
16...	10	--	.0	--	.02	.02	--	.01	.00	.11	.14	.25
MAY												
13...	9.7	--	.0	--	.04	.03	--	.01	.00	.04	.05	.23
JUNE												
10...	12	--	.0	--	.01	.01	--	.00	.00	.02	.03	.30
JULY												
17...	12	--	--	--	.02	--	--	--	--	.27	.35	--
AUG.												
14...	10	--	--	--	.01	--	--	--	--	.12	.15	--
SEP.												
11...	14	--	--	--	.02	--	--	--	--	.18	.23	--

01193500 SALMON RIVER NEAR EAST HAMPTON, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT. 09...	.00	.17	.04	.15	.32	1.4	--	63	4.42	.09	--	26
NOV. 06...	.00	.16	.23	.24	.40	1.8	72	--	19.4	.10	--	21
DEC. 10...	.00	.26	.20	.28	.54	2.4	66	--	--	.09	--	16
JAN. 14...	.01	.53	.04	.07	.60	2.7	65	--	21.1	.09	--	20
FEB. 11...	.00	.52	.16	.21	.73	3.2	64	--	29.4	.09	--	20
MAR. 11...	.01	.41	.04	.23	.64	2.8	47	--	19.7	.06	--	17
APR. 16...	.01	.26	.04	.15	.41	1.8	--	--	--	--	--	14
MAY 13...	.01	.26	.34	.36	.62	2.7	--	--	--	--	--	17
JUNE 10...	.01	.31	.20	.22	.53	2.3	--	--	--	--	--	23
JULY 17...	--	.13	.03	.30	.43	1.9	53	--	6.54	.07	72	22
AUG. 14...	--	.14	.02	.14	.28	1.2	66	--	2.32	.09	75	24
SEP. 11...	--	.04	.00	.16	.20	.89	76	--	10.3	.10	71	22

DATE	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 09...	12	3.4	14	--	--	0	1	--	--	3.1	5.4
NOV. 06...	10	7.1	11	--	--	0	1	17	.0	--	--
DEC. 10...	11	3.8	5	--	.00	4	1	37	.0	5.0	2.5
JAN. 14...	13	2.3	7	--	.00	0	1	10	.0	2.0	2.5
FEB. 11...	16	1.4	4	--	.00	0	1	4	.0	1.0	1.0
MAR. 11...	12	2.2	5	--	.00	0	1	3	.0	--	--
APR. 16...	6	4.5	8	--	.00	2	1	20	.0	--	3.0
MAY 13...	10	4.6	7	--	.00	0	1	30	.0	--	--
JUNE 10...	15	3.2	8	--	.01	6	1	20	.0	--	4.6
JULY 17...	9	1.6	13	0	.01	--	2	8	.0	--	3.9
AUG. 14...	12	.7	11	0	.00	--	1	1	.0	--	4.1
SEP. 11...	11	.9	11	0	.01	--	1	4	.0	--	5.9

01193500 SALMON RIVER NEAR EAST HAMPTON, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT. 09...	103	6.9	9.5	8.0	8.8	83	24	16	35	--	--	--
NOV. 05...	87	6.5	10.0	6.0	8.8	70	41	25	22	--	--	14
DEC. 10...	75	6.4	9.5	6.5	9.6	78	820	700	1200	--	--	17
JAN. 14...	92	6.8	-8.0	.5	11.3	76	14	6	30	--	--	6
FEB. 11...	94	6.7	-3.0	.5	10.4	72	29	9	2	--	--	18
MAR. 11...	94	6.7	2.0	2.0	8.8	64	320	5	4	--	--	6
APR. 16...	66	6.4	10.0	9.5	9.2	77	1400	100	38	--	--	12
MAY 13...	67	6.5	15.0	11.0	9.3	85	7200	B1600	3100	--	--	17
JUNE 10...	77	6.7	30.0	19.5	7.8	85	3000	40	82	--	--	10
JULY 17...	85	7.2	26.0	24.5	9.0	108	18000	120	230	.3	.7	--
AUG. 14...	132	7.5	32.0	26.0	8.5	105	17000	100	140	1.5	1.0	--
SEP. 11...	95	8.4	26.0	21.0	8.4	94	4500	24	19	1.5	.0	--

DATE	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BISMUTH (BI) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED GALLIUM (GA) (UG/L)	DISSOLVED GERMANIUM (GE) (UG/L)
OCT. 09...	--	--	--	--	--	--	0	--	0	--	--
09...	50	0	<2	11	4	0	--	<2	2	0	<2
JULY 17...	--	--	--	--	--	--	--	--	10	--	--
AUG. 14...	--	--	--	--	--	--	--	--	0	--	--
SEP. 11...	--	--	--	--	--	--	--	--	10	--	--

DATE	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED TIN (SN) (UG/L)	DISSOLVED TITANIUM (TI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED ZIRCONIUM (ZR) (UG/L)
OCT. 09...	--	3	--	--	--	--	--	--	--	10	--
09...	0	<2	0	2	0	40	<2	<1	<.7	<7	<2
JULY 17...	--	--	--	--	--	--	--	--	--	10	--
AUG. 14...	--	--	--	--	--	--	--	--	--	20	--
SEP. 11...	--	--	--	--	--	--	--	--	--	0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

01193500 SALMON RIVER NEAR EAST HAMPTON, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)
OCT. 09...	.00	.0	.0	0	.00	<.1	.00	.0	.00	<.1	.00	<.1

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)
OCT. 09...	.00	.0	.00	.0	.00	.0	.00	.0	0	0	.02

DATE	2,4,5-T (UG/L)	SILVEX (UG/L)	DIAZINON (UG/L)	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)
OCT. 09...	.00	.02	.00	.00	.00	.00	.00	.00	.00	.0	0

DATE	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)
OCT. 09...	1	2	29	13	6.3	.8	110	.0	.7	1	0

DATE	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL STRONTIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
OCT. 09...	2	0	3	4000	<5	120	.0	<2	0	0	12

01193750 CONNECTICUT RIVER AT EAST HADDAM, CONN.

LOCATION.--Lat 41°27'05", long 72°27'55", Middlesex County, at bridge on State Highway 82, at East Haddam.

DRAINAGE AREA.--11,086 mi² (28,713 km²).

PERIOD OF RECORD.--Chemical analyses: March 1968, July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JULY 17...	1230	3.2	10	30	30	10	14	1.7	40	0	9.2
AUG. 14...	1155	.4	10	20	10	10	14	2.1	37	0	12
SEP. 11...	1250	4.3	10	40	10	10	15	2.2	43	0	11

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JULY 17...	13	.13	.36	.46	.23	.27	.63	.86	3.8	63	.09
AUG. 14...	15	.13	.49	.63	.29	.22	.71	1.0	4.4	83	.11
SEP. 11...	12	.15	.31	.40	.46	.21	.52	.98	4.3	85	.12

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JULY 17...	100	42	9	4.0	33	0	.00	2	20	.0	200
AUG. 14...	111	44	13	7.5	30	0	.00	3	3	.0	130
SEP. 11...	106	47	11	2.2	35	0	.02	1	5	.0	235

DATE	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 17...	7.2	25.0	26.0	8.4	104	4900	1000	B12	24	50	5.1
AUG. 14...	6.9	30.5	27.0	7.0	88	20000	825	6	18	27	5.2
SEP. 11...	7.5	25.5	21.0	7.8	88	3400	100	13	32	7.5	6.5

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01196222 QUINNIPIAC RIVER NEAR MERIDEN, CONN.

LOCATION.--Lat 41°31'45", long 72°51'50", New Haven County, at bridge on Cheshire Street, 3 mi (5 km) west of Meriden.

DRAINAGE AREA.--69.6 mi² (180.3 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY 16...	1620	55	9.0	20	100	130	50	25	3.6	67	0	19
AUG. 13...	1340	37	12	10	60	160	40	29	4.3	84	0	22
SEP. 10...	1520	82	11	10	130	120	20	24	3.9	127	0	19

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY 16...	21	.56	1.1	1.4	1.3	.10	1.2	2.5	11	118	17.5	.16
AUG. 13...	24	.45	1.5	1.9	1.9	.20	1.7	3.6	16	178	17.8	.24
SEP. 10...	20	.46	.67	.86	1.3	.13	.80	2.1	9.3	158	35.0	.21

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY 16...	160	77	22	5.4	55	0	.01	3	3	.1	175
AUG. 13...	206	90	21	17	69	0	.00	6	2	.2	240
SEP. 10...	168	76	0	20	104	0	.01	1	6	.0	206

DATE	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 16...	7.3	24.0	21.5	3.3	38	172000	5600	2200	2.0	7.0	5.8
AUG. 13...	6.9	30.0	19.0	4.6	50	5100	200	50	4.5	8.5	5.9
SEP. 10...	7.0	25.0	17.5	5.7	59	5200	200	100	4.0	.0	4.9

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CONN.

LOCATION.--Lat 41°26'58", long 72°20'29", New Haven County, at gaging station on right bank on Wilbur Cross Highway, 0.8 mi (1.3 km) downstream from bridge on Quinnipiac Street in Wallingford, and 2 mi (3 km) upstream from Wharton Brook.

DRAINAGE AREA.--110 mi² (285 km²).

PERIOD OF RECORD.--Chemical analyses: October 1956 to September 1957, June 1968 to September 1974. Water temperatures: November 1969 to December 1970.

REMARKS.--Records of iron, specific conductance, and pH of daily samples for 1956-57 available in district office at Hartford, Conn.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
10...	0845	70	--	85	200	--	--	--	--	--	--	--
10...	0850	70	12	70	230	34	6.2	94	0	27	3.4	32
NOV.												
06...	0930	92	13	--	280	28	6.0	74	0	--	--	24
DEC.												
11...	1000	425	6.1	--	210	14	3.0	31	0	--	--	14
JAN.												
15...	1045	225	12	40	210	24	5.5	70	0	--	--	32
FEB.												
12...	1000	240	11	140	20	27	5.4	70	0	--	--	34
MAR.												
12...	1035	200	9.6	140	140	26	5.2	74	0	--	--	29
APR.												
17...	0935	420	7.1	140	130	19	3.5	49	0	--	--	18
MAY												
14...	0920	340	7.3	190	150	18	3.1	48	0	--	--	16
JUNE												
10...	0845	107	11	50	80	30	6.0	77	0	--	--	29
JULY												
16...	1310	115	9.7	490	230	31	5.7	94	0	--	--	31
AUG.												
13...	1245	57	11	60	140	27	5.4	77	0	--	--	36
SEP.												
10...	1330	156	11	150	160	26	4.2	71	0	--	--	23

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	TOTAL SULFIDE (S) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.												
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	33	--	--	.2	1.4	--	--	--	--	.31	.40	4.0
NOV.												
06...	24	--	--	--	1.0	1.0	.46	--	--	1.6	2.1	1.6
DEC.												
11...	21	.1	--	--	.36	.28	.17	--	--	.48	.59	.88
JAN.												
15...	27	.0	--	--	.44	.44	.27	--	--	1.4	1.8	1.7
FEB.												
12...	25	.1	--	--	.43	.43	.28	--	--	1.3	1.7	1.7
MAR.												
12...	25	.0	--	--	.50	.52	.38	--	--	1.5	1.9	1.4
APR.												
17...	14	--	2.3	--	.25	.02	--	.15	.08	.66	.82	.83
MAY												
14...	17	--	.0	--	.34	.33	--	.22	.00	.43	.55	.74
JUNE												
10...	27	--	.0	--	.77	.75	--	.55	.00	.65	.84	1.7
JULY												
16...	27	--	--	--	.72	--	--	--	--	1.7	2.2	--
AUG.												
13...	34	--	--	--	.63	--	--	--	--	1.2	1.5	--
SEP.												
10...	28	--	--	--	.56	--	--	--	--	1.3	1.7	--

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.												
10...	.20	4.2	.65	.96	5.2	23	--	195	36.9	.27	--	110
NOV.												
06...	.07	1.7	--	1.4	3.1	14	187	--	46.5	.25	--	90
DEC.												
11...	.02	.70	.27	.73	1.4	6.3	83	--	95.2	.11	--	47
JAN.												
15...	.04	1.7	.70	2.1	3.8	17	186	--	113	.25	--	80
FEB.												
12...	.03	1.7	.60	1.9	3.6	16	187	--	121	.25	--	90
MAR.												
12...	.04	1.4	.20	1.7	3.1	14	165	--	89.1	.22	--	86
APR.												
17...	.04	.87	.05	.69	1.6	6.9	--	--	--	--	--	62
MAY												
14...	.06	.85	.67	1.1	2.0	8.6	--	--	--	--	--	56
JUNE												
10...	.21	1.9	1.4	2.0	3.9	17	--	--	--	--	--	100
JULY												
16...	--	1.6	.30	2.0	3.6	16	219	--	66.0	.30	219	100
AUG.												
13...	--	2.5	.70	1.9	4.4	19	210	--	32.3	.29	236	90
SEP.												
10...	--	1.1	.30	1.6	2.7	12	156	--	65.7	.21	171	82

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.											
10...	33	15	77	--	--	0	1	--	--	4.2	8.8
NOV.											
06...	29	19	61	--	--	0	1	15	.0	5.0	--
DEC.											
11...	22	7.9	25	--	.01	0	4	33	.0	3.5	5.0
JAN.											
15...	14	20	66	--	.01	1	4	10	.0	5.0	5.0
FEB.											
12...	27	15	62	--	.03	16	1	12	.0	1.5	4.5
MAR.											
12...	26	15	61	--	.01	0	2	4	.0	--	--
APR.											
17...	22	9.9	40	--	.01	0	2	7	.0	--	7.3
MAY											
14...	18	4.7	38	--	.01	0	3	29	.0	--	--
JUNE											
10...	36	9.8	63	--	.01	4	1	10	.0	--	5.1
JULY											
16...	24	7.5	77	0	.01	--	2	5	.1	--	11
AUG.											
13...	27	7.8	63	1	.01	--	4	3	.2	--	8.4
SEP.											
10...	24	16	58	1	.01	--	1	7	.1	--	7.6

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT. 10...	351	7.0	12.5	15.0	9.9	92	16000	89	260	--	--	--
NOV. 06...	310	6.6	6.5	9.0	10.0	86	80000	9000	1400	--	--	21
DEC. 11...	150	6.6	4.5	5.5	11.3	90	16000	11000	16000	--	--	22
JAN. 15...	310	6.6	3.5	2.0	12.3	89	20000	11000	9900	--	--	26
FEB. 12...	300	6.9	-2.0	1.5	11.2	80	76000	10000	8000	--	--	13
MAR. 12...	240	6.9	1.5	5.0	12.0	94	60000	17000	2600	--	--	15
APR. 17...	193	6.9	13.0	10.0	7.9	70	40000	7200	1500	--	--	16
MAY 14...	172	6.9	15.5	13.0	9.6	90	16000	B3000	100	--	--	20
JUNE 10...	260	7.1	25.0	25.0	6.6	74	66000	2300	190	--	--	22
JULY 16...	265	7.3	30.5	26.0	7.1	90	100000	700	700	19	53	--
AUG. 13...	360	7.2	30.0	26.0	9.0	107	12000	950	140	27	63	--
SEP. 10...	210	6.9	20.0	20.0	7.1	78	16000	1400	76	6.0	.5	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)
OCT. 10...	80	<2	<5	120	6	12	--	<5	9	<2	<5
10...	--	--	--	--	--	--	0	--	10	--	--
JULY 16...	--	--	--	--	--	--	--	--	30	--	--
AUG. 13...	--	--	--	--	--	--	--	--	10	--	--
SEP. 10...	--	--	--	--	--	--	--	--	10	--	--

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
OCT. 10...	2	<5	<2	24	0	110	<5	<6	5.0	35	<7
10...	--	2	--	--	--	--	--	--	--	40	--
JULY 16...	--	--	--	--	--	--	--	--	--	40	--
AUG. 13...	--	--	--	--	--	--	--	--	--	80	--
SEP. 10...	--	--	--	--	--	--	--	--	--	20	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)
OCT. 10...	.00	.0	.0	1	.00	1.7	.00	.0	.00	.0	.00	.0

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM DE- POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE- POSITS (UG/KG)
OCT. 10...	.00	.0	.00	.0	.00	.0	.00	.0	0	0	.00	0

DATE	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE- POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE- POSITS (UG/KG)	DI- AZINON (UG/L)	ETHION (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	METHYL TRI- THION (UG/L)	PARA- THION (UG/L)	TRI- THION (UG/L)	PCB (UG/L)
OCT. 10...	.00	0	.01	0	.03	.00	.00	.00	.00	.00	.00	.0

DATE	PCB IN BOTTOM DE- POSITS (UG/KG)	SED MAT. FALL DIAM. % FINER THAN .004 MM	SED MAT. FALL DIAM. % FINER THAN .062 MM	SED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL PHOS- PHORUS IN BOT- TOM DE- POSITS (MG/KG)	TOTAL AMMONIA NITRO- GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITRO- GEN IN BOTTOM DEP. (MG/KG)	IN- ORGANIC CARBON IN BED MA- TERIAL (G/KG)	ORGANIC CARBON IN BED MA- TERIAL (C) (G/KG)	TOTAL ARSENIC IN BOTTOM DE- POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE- POSITS (UG/G)
OCT. 10...	25	1	2	71	33	15	.1	140	.2	1.7	0	0

DATE	TOTAL CHRO- MIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE- POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE- POSITS (UG/G)	TOTAL IRON IN BOTTOM DE- POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE- POSITS (UG/G)	TOTAL MANGA- NESE IN BOTTOM DE- POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE- POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE- POSITS (UG/G)	TOTAL SELE- NIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL STRON- TIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE- POSITS (UG/G)
OCT. 10...	27	7	63	3600	10	130	.0	32	0	2	88

01196530 QUINNIPIAC RIVER AT NORTH HAVEN, CONN.

LOCATION.--Lat 41°23'24", long 72°52'19", New Haven County, at bridge on U.S. Highway 5, at North Haven.

DRAINAGE AREA.--128 mi² (332 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JULY 16...	1130	10	30	50	210	40	36	11	117	0	100
AUG. 13...	1110	11	40	60	240	20	36	16	127	0	160
SEP. 10...	1115	11	20	120	180	40	38	5.2	43	0	44

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JULY 16...	43	.47	2.6	3.3	1.9	.30	2.9	4.8	21	278	.38
AUG. 13...	52	.40	3.0	3.9	2.5	1.6	4.6	7.1	31	267	.36
SEP. 10...	28	.55	1.4	1.8	1.7	2.2	3.6	5.3	23	206	.28

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JULY 16...	277	130	34	12	96	0	.01	4	5	.2	460
AUG. 13...	326	160	38	13	104	0	.02	3	5	.2	370
SEP. 10...	251	120	81	6.9	35	0	.02	2	6	.1	266

DATE	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 16...	7.2	28.0	24.5	3.2	38	38000	240	520	11	36	8.2
AUG. 13...	7.2	28.5	21.5	4.8	54	76000	4200	150	46	100	16
SEP. 10...	7.0	25.0	19.0	5.7	61	11000	500	140	5.5	1.5	16

01196657 NEW HAVEN HARBOR NEAR NEW HAVEN, CONN.

LOCATION.--Lat 41°16'11", long 72°54'44", New Haven County, in main channel between Sandy Point and Black Rock, 0.4 mi (0.6 km) west of coast guard station.

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DEPTH (FT)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JULY 16...	0845	3.0	.3	50	140	90	40	320	1000	115	0	15000
AUG. 13...	0840	3.0	.2	40	220	80	40	250	86	102	0	16000
SEP. 10...	0850	3.0	2.1	50	100	90	30	250	980	107	0	15000

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESI-DUE (MG/L)
JULY 16...	2100	.13	.25	.32	.01	.25	.50	.51	2.3	28300	38.5	49200
AUG. 13...	2100	.15	.23	.30	.01	.23	.46	.47	2.1	30000	40.8	25600
SEP. 10...	1900	.24	.54	.70	.13	.33	.87	1.0	4.4	26100	35.5	29000

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SALIN-ITY (PPT)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JULY 16...	4900	4800	2.9	94	0	.02	1	1	.0	17	27000
AUG. 13...	970	890	2.6	84	0	.00	1	1	.1	17	37000
SEP. 10...	4700	4600	5.4	88	1	.00	1	1	.0	12	33500

DATE	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 16...	7.8	21.0	20.0	5.8	70	5400	B360	37	11	27	2.6
AUG. 13...	7.8	22.5	21.0	6.8	93	6400	580	50	11	10	2.8
SEP. 10...	7.5	20.0	20.0	4.0	52	6000	500	59	7.0	1.0	3.3

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01198550 HOUSATONIC RIVER NEAR CANAAN, CONN.

LOCATION.--Lat 42°00'17", long 73°21'27", Litchfield County, at bridge on U.S. Highway 44, 2 mi (3 km) southwest of Canaan.

DRAINAGE AREA.--586 mi² (1,518 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JULY 22...	1025	330	2.7	10	40	0	30	33	11	129	0	15
AUG. 19...	1030	303	2.2	0	50	30	0	29	14	134	0	21
SEP. 16...	1215	841	3.8	10	50	50	20	29	9.2	117	0	14

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JULY 22...	24	.13	.40	.52	.13	.00	.35	.48	2.1	196	175	.27
AUG. 19...	33	.15	.43	.55	.04	.28	.71	.75	3.3	225	184	.31
SEP. 16...	17	.20	.33	.43	.51	.34	.67	1.2	5.2	161	366	.22

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JULY 22...	193	130	22	1.3	106	0	.00	4	4	.0	255
AUG. 19...	230	130	20	3.4	110	0	.00	2	20	.0	300
SEP. 16...	180	110	14	4.7	96	2	.00	1	10	.0	235

DATE	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 22...	8.2	22.0	21.0	11.3	126	3500	110	14	67	7.5	6.2
AUG. 19...	7.8	26.0	20.0	8.8	97	140	100	110	61	6.0	7.0
SEP. 16...	7.6	17.5	16.5	9.2	94	2800	400	94	23	3.5	8.0

01198800 HOLLENBECK RIVER AT HUNTSVILLE, CONN.

LOCATION.--Lat 41°56'55", long 73°19'18", Litchfield County, at gaging station on State Highway 63, 0.5 mi (0.8 km) northwest of Huntsville.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.											
18...	1045	3.2	--	40	24	--	--	--	--	--	--
18...	1100	3.2	4.3	60	20	39	13	150	0	4.5	2.8
NOV.											
15...	1100	7.1	--	--	--	--	--	--	--	--	--
DEC.											
20...	1200	60	--	--	--	--	--	--	--	--	--
JAN.											
22...	1510	60	--	--	--	--	--	--	--	--	--
FEB.											
20...	1400	56	--	--	--	--	--	--	--	--	--
MAR.											
19...	1430	51	--	--	--	--	--	--	--	--	--
APR.											
23...	1430	39	--	--	--	--	--	--	--	--	--
MAY											
22...	1235	24	4.8	70	30	16	7.0	64	0	--	--
JUNE											
19...	1515	11	--	--	--	--	--	--	--	--	--
JULY											
19...	1405	6.1	--	--	--	--	--	--	--	--	--
AUG.											
27...	1540	2.8	--	--	--	--	--	--	--	--	--
SEP.											
26...	1410	6.2	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL SUL-FIDE (S) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.											
18...	--	--	--	--	--	--	--	--	--	--	--
18...	9.9	12	--	.3	.01	--	--	--	.07	.09	.04
NOV.											
15...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
20...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
22...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
20...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
19...	--	--	--	--	--	--	--	--	--	--	--
APR.											
23...	--	--	--	--	--	--	--	--	--	--	--
MAY											
22...	6.2	10	.7	--	.01	.01	.00	.00	.03	.04	.12
JUNE											
19...	--	--	--	--	--	--	--	--	--	--	--
JULY											
19...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
27...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
26...	--	--	--	--	--	--	--	--	--	--	--

01198800 HOLLENBECK RIVER AT HUNTSVILLE, CONN.--Continued

DRAINAGE AREA.--18.1 mi² (46.9 km²).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)
OCT. 18...	.00	.05	.10	.17	.22	1.0	154	1.33	.21	128
MAY 22...	.01	.13	.26	.29	.42	1.9	--	--	--	69

DATE	NON-CARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 18...	0	3.1	128	--	0	--	--	2.8	E3.0
MAY 22...	13	2.2	56	.00	1	4	.0	--	1.8

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT. 18...	294	7.1	8.0	7.0	9.6	79	900	240	15	--
NOV. 15...	212	7.2	21.0	5.5	11.6	91	--	--	--	--
DEC. 20...	120	7.1	1.0	.5	11.0	76	--	--	--	--
JAN. 22...	137	7.2	6.5	1.0	12.5	88	--	--	--	--
FEB. 20...	181	6.9	4.5	1.0	8.5	60	--	--	--	--
MAR. 19...	106	7.1	9.0	3.0	11.5	86	--	--	--	--
APR. 23...	128	7.3	18.0	12.0	10.6	98	--	--	--	--
MAY 22...	136	7.7	26.5	16.5	8.0	79	--	--	--	8
JUNE 19...	163	7.5	28.0	22.0	7.7	88	--	--	--	--
JULY 19...	210	8.0	29.0	24.0	8.9	105	--	--	--	--
AUG. 27...	295	8.5	27.0	22.0	9.0	102	--	--	--	--
SEP. 26...	197	7.8	17.5	13.0	10.0	95	--	--	--	--

01198800 HOLLENBECK RIVER AT HUNTSVILLE, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)
OCT. 18...	10	<2	<5	6	3	<2	<5	<1	<2	<5	<1

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
OCT. 18...	<5	<2	<5	0	42	<5	<3	<2.0	8	<7

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)
OCT. 18...	.00	.0	.0	0	.00	.0	.00	<.1	.00	<.1	.00	.1

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)
OCT. 18...	.00	.0	.00	.0	.00	.0	.00	.0	0	0	.00	0

DATE	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	PCB (UG/L)
OCT. 18...	.00	0	.00	0	.00	.00	.00	.00	.00	.00	.00	.0

DATE	PCB IN BOTTOM DE-POSITS (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	IN-ORGANIC CARBON IN BED MA-TERIAL (G/KG)	ORGANIC CARBON IN BED MA-TERIAL (C) (G/KG)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)
OCT. 18...	0	1	3	66	24	4.0	.3	110	12	4.1	0	0

DATE	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL STRON-TIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
OCT. 18...	8	2	2	9600	5	390	.0	5	11	7	14

01198851 WANGUM LAKE BROOK NEAR HUNTSVILLE, CONN.

LOCATION.--Lat 41°56'36", long 73°17'06", Litchfield County, at gaging station on left bank, 300 ft (90 m) downstream from Under Mountain Road, 1.5 mi (2.4 km) east of Huntsville.

DRAINAGE AREA.--5.32 mi² (13.78 km²).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.										
17...	1100	1.7	--	100	3	--	--	--	--	--
17...	1105	1.7	3.1	70	10	19	9.1	99	0	2.7
NOV.										
14...	1100	2.6	--	--	--	--	--	--	--	--
DEC.										
19...	1000	13	--	--	--	--	--	--	--	--
JAN.										
22...	1120	14	--	--	--	--	--	--	--	--
FEB.										
20...	1100	9.4	--	--	--	--	--	--	--	--
MAR.										
19...	1050	15	--	--	--	--	--	--	--	--
APR.										
23...	1105	7.5	--	--	--	--	--	--	--	--
MAY										
22...	1045	5.1	2.8	60	10	14	6.4	62	0	3.2
JUNE										
19...	1050	1.5	--	--	--	--	--	--	--	--
JULY										
19...	1115	1.3	--	--	--	--	--	--	--	--
AUG.										
27...	1200	.39	--	--	--	--	--	--	--	--
SEP.										
26...	1000	2.0	--	--	--	--	--	--	--	--

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL SULFIDE (S) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL HYDROLYZABLE PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.									
17...	--	--	--	--	--	--	--	--	--
17...	7.7	--	.03	--	--	--	.00	.00	.00
NOV.									
14...	--	--	--	--	--	--	--	--	--
DEC.									
19...	--	--	--	--	--	--	--	--	--
JAN.									
22...	--	--	--	--	--	--	--	--	--
FEB.									
20...	--	--	--	--	--	--	--	--	--
MAR.									
19...	--	--	--	--	--	--	--	--	--
APR.									
23...	--	--	--	--	--	--	--	--	--
MAY									
22...	10	.0	.01	.01	.00	.00	.02	.03	.04
JUNE									
19...	--	--	--	--	--	--	--	--	--
JULY									
19...	--	--	--	--	--	--	--	--	--
AUG.									
27...	--	--	--	--	--	--	--	--	--
SEP.									
26...	--	--	--	--	--	--	--	--	--

01198851 WANGUM LAKE BROOK NEAR HUNTSVILLE, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.								
17...	.00	.01	.18	.18	.19	.00	85	4
MAY								
22...	.01	.05	.12	.14	.19	.46	61	10

DATE	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
17...	2.3	81	--	0	--	--	4.5	7.0
MAY								
22...	2.5	51	.00	1	20	.0	--	2.2

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.										
17...	185	7.2	16.0	7.5	9.6	79	40	25	2	--
NOV.										
14...	162	7.3	20.5	7.0	9.4	76	--	--	--	--
DEC.										
19...	97	7.2	-6.0	.5	9.0	62	--	--	--	--
JAN.										
22...	120	7.1	5.5	1.0	9.9	70	--	--	--	--
FEB.										
20...	135	7.0	7.0	1.0	9.2	65	--	--	--	--
MAR.										
19...	93	7.1	6.0	2.5	9.3	68	--	--	--	--
APR.										
23...	109	7.2	20.5	11.0	7.4	67	--	--	--	--
MAY										
22...	118	7.6	25.0	14.0	11.0	107	--	--	--	9
JUNE										
14...	146	7.3	26.5	16.5	7.6	77	--	--	--	--
JULY										
19...	164	7.4	29.0	20.0	7.8	86	--	--	--	--
AUG.										
27...	226	8.6	25.5	21.0	10.3	114	--	--	--	--
SEP.										
25...	126	7.8	15.5	10.0	10.5	93	--	--	--	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)
OCT.											
17...	30	0	<3	9	2	<2	<3	2	<2	<3	8

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
OCT.										
17...	<3	<2	<3	0	28	<3	<2	<2.0	28	<4

01198851 WANGUM LAKE BROOK NEAR HUNTSVILLE, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)
OCT. 17...	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00	.0

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)
OCT. 17...	.00	.0	.00	.0	.00	.0	.00	.0	0	0	.00	0

DATE	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	PCB (UG/L)
OCT. 17...	.00	0	.00	0	.00	.00	.00	.00	.00	.00	.00	.0

DATE	PCB IN BOTTOM DE-POSITS (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	IN-ORGANIC CARBON IN BED MA-TERIAL (G/KG)	ORGANIC CARBON IN BED MA-TERIAL (C) (G/KG)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)
OCT. 17...	0	1	3	19	26	2.1	.1	190	5.2	5.6	0	0

DATE	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL STRON-TIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
OCT. 17...	5	5	6	9000	<5	160	.0	0	0	6	20

01198860 DEMING BROOK NEAR HUNTSVILLE, CONN.

LOCATION.--Lat 41°57'52", long 73°18'07", Litchfield County, at gaging station on left bank, 20 feet (6 m) downstream from Under Mountain Road, 0.6 mi (1.0 km) upstream from mouth, and 1.5 mi (2.4 km) northeast of Huntsville.

DRAINAGE AREA.--1.08 mi² (2.80 km²).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)
OCT. 17...	1320	.07	246	6.9	10.5	12.0
NOV. 14...	1200	.49	163	7.3	20.5	7.5
DEC. 19...	1140	1.3	111	7.1	-3.0	.5
JAN. 22...	1300	4.3	116	7.1	0.0	1.0
FEB. 20...	1245	2.2	130	7.2	5.0	.5
MAR. 19...	1130	2.7	102	7.0	4.5	1.0
APR. 23...	1235	1.4	111	7.5	13.5	10.5
MAY 22...	1125	1.5	132	7.4	25.0	13.0
JUNE 19...	1200	.32	140	7.0	26.0	15.0
JULY 19...	1220	.13	220	6.9	29.0	16.5
AUG. 27...	1300	.01	300	7.4	24.0	16.5
SEP. 26...	1125	.20	156	7.8	15.0	12.0

01198870 LEDGY BROOK NEAR HUNTSVILLE, CONN.

LOCATION.--Lat 41°58'02", long 73°18'26", Litchfield County, at gaging station on left upstream wingwall, at bridge on Under Mountain Road, 0.6 mi (1.0 km) upstream from mouth, and 1.6 mi (2.6 km) northeast of Huntsville.

DRAINAGE AREA.--0.66 mi^2 (1.71 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)
OCT.						
17...	1340	.02	214	7.6	9.5	12.0
NOV.						
14...	1230	.20	95	6.9	20.5	10.5
DEC.						
19...	1230	.97	86	7.1	-4.0	.5
JAN.						
22...	1330	3.5	100	7.0	8.5	1.0
FEB.						
20...	1200	.97	98	6.9	5.0	1.0
MAR.						
19...	1200	1.6	86	7.2	10.0	4.5
APR.						
23...	1250	.97	95	7.3	12.0	9.5
MAY						
22...	1145	.63	97	7.3	27.0	13.5
JUNE						
19...	1210	.18	122	7.9	26.0	17.5
JULY						
19...	1240	.09	125	7.9	29.0	23.5
AUG.						
27...	1330	.01	187	9.1	26.0	25.5
SEP.						
26...	1140	.19	107	7.7	17.0	13.0

01198880 WANGUM LAKE BROOK NEAR SOUTH CANAAN, CONN.

LOCATION.--Lat 41°57'42", long 73°18'52", Litchfield County, at gaging station on right bank just downstream from Barnes Road, 1.1 mi (1.8 km) east of South Canaan.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.										
17...	1415	--	--	120	70	--	--	--	--	--
17...	1420	2.0	5.9	100	70	33	14	176	0	2.9
NOV.										
14...	1310	4.3	--	--	--	--	--	--	--	--
DEC.										
19...	1315	20	--	--	--	--	--	--	--	--
JAN.										
22...	1430	36	--	--	--	--	--	--	--	--
FEB.										
20...	1305	25	--	--	--	--	--	--	--	--
MAR.										
19...	1300	32	--	--	--	--	--	--	--	--
APR.										
23...	1320	16	--	--	--	--	--	--	--	--
MAY										
22...	1150	4.5	3.8	100	100	21	8.3	90	0	2.6
JUNE										
19...	1230	2.9	--	--	--	--	--	--	--	--
JULY										
19...	1310	2.3	--	--	--	--	--	--	--	--
AUG.										
27...	1340	1.7	--	--	--	--	--	--	--	--
SEP.										
26...	1225	3.8	--	--	--	--	--	--	--	--

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL SULFIDE (S) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL HYDROLYZABLE PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.									
17...	--	--	--	--	--	--	--	--	--
17...	7.0	--	.01	--	--	--	.02	.03	.01
NOV.									
14...	--	--	--	--	--	--	--	--	--
DEC.									
19...	--	--	--	--	--	--	--	--	--
JAN.									
22...	--	--	--	--	--	--	--	--	--
FEB.									
20...	--	--	--	--	--	--	--	--	--
MAR.									
19...	--	--	--	--	--	--	--	--	--
APR.									
23...	--	--	--	--	--	--	--	--	--
MAY									
22...	9.7	.0	.02	.0	.01	.00	.04	.05	.07
JUNE									
19...	--	--	--	--	--	--	--	--	--
JULY									
19...	--	--	--	--	--	--	--	--	--
AUG.									
27...	--	--	--	--	--	--	--	--	--
SEP.									
26...	--	--	--	--	--	--	--	--	--

01198880 WANGUM LAKE BROOK NEAR SOUTH CANAAN, CONN.--Continued

DRAINAGE AREA.--10.1 mi² (26.2 km²).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT. 17...	.00	.02	.21	.23	.25	1.1	140	0
MAY 22...	.01	.04	.17	.21	.29	1.3	87	8

DATE	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 17...	4.0	143	--	0	--	--	4.1	4.6
MAY 22...	4.9	79	.00	1	10	.0	--	3.6

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT. 17...	312	7.1	11.5	8.0	9.0	76	175	39	41	--
NOV. 14...	221	6.5	10.5	7.0	8.5	70	--	--	--	--
DEC. 19...	130	7.0	-3.0	.5	9.9	68	--	--	--	--
JAN. 22...	150	7.2	8.0	1.0	9.6	68	--	--	--	--
FEB. 20...	152	6.4	4.5	1.0	8.3	58	--	--	--	--
MAR. 19...	128	7.3	10.5	3.0	10.7	80	--	--	--	--
APR. 23...	155	7.3	15.0	12.0	10.2	95	--	--	--	--
MAY 22...	155	7.5	29.0	16.0	7.1	72	--	--	--	10
JUNE 14...	205	7.4	23.0	19.0	7.5	81	--	--	--	--
JULY 19...	220	7.3	29.0	21.5	10.5	119	--	--	--	--
AUG. 27...	284	8.0	25.0	20.0	9.6	105	--	--	--	--
SEP. 26...	185	7.2	14.0	11.0	9.5	86	--	--	--	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)
OCT. 17...	60	<2	<5	8	4	<2	<5	2	<2	<5	<1

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
OCT. 17...	<5	<2	<5	0	30	<5	<3	<2.0	10	<7

01198080 WANGUM LAKE BROOK NEAR SOUTH CANAAN, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)
OCT., 17...	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00	.1

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)
OCT., 17...	.00	.0	.00	.0	.00	.0	.00	.0	0	0	.00	0

DATE	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	PCB (UG/L)
OCT., 17...	.00	0	.00	0	.00	.00	.00	.00	.00	.00	.00	.0

DATE	PCB IN BOTTOM DE-POSITS (UG/KG)	SED. MAT. FALL DIAM. % FINER THAN .004 MM	SED. MAT. FALL DIAM. % FINER THAN .062 MM	SED. MAT. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	IN-ORGANIC CARBON IN BED MA-TERIAL (G/KG)	ORGANIC CARBON IN BED MA-TERIAL (C) (G/KG)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)
OCT., 17...	2	1	8	58	37	6.2	.1	450	4.6	5.3	1	0

DATE	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL STRON-TIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
OCT., 17...	6	5	7	13000	<5	370	.0	8	0	11	25

01198000 FALLS VILLAGE RESERVOIR AT FALLS VILLAGE, CONN.

LOCATION.--Lat 41°57'45", long 73°22'18", Litchfield County, on Housatonic River at Great Falls, 0.4 mi (0.6 km) upstream from hydroelectric plant of Hartford Electric Light Company and gaging station at Falls Village.

DRAINAGE AREA.--629 mi² (1,629 km²).

PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1956.
Water temperatures: October 1955 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 24.0°C July 5, 6, 15, 16, 19, Aug. 4, 5; minimum, freezing point on many days during winter months.

Period of record:
Water temperatures: Maximum, 27.0°C June 20, 1957; minimum, freezing point on many days during winter months.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	10.0	3.5	2.0	2.5	3.0	3.0	15.0	15.0	20.0	22.5	20.0
2	16.0	9.5	3.0	2.0	1.5	3.0	4.0	14.0	15.0	20.0	23.0	20.0
3	16.0	9.0	2.5	2.0	0.5	3.0	4.5	14.0	15.5	21.0	23.5	18.0
4	14.0	8.0	3.0	1.5	0.0	3.0	7.0	13.0	16.0	23.0	24.0	17.0
5	16.0	7.5	4.5	1.5	0.0	4.0	10.0	12.0	17.0	24.0	24.0	15.0
6	16.0	6.5	8.0	1.0	0.0	5.5	9.0	11.0	18.5	24.0	23.5	16.0
7	15.0	5.5	7.0	1.0	0.0	6.0	8.0	10.5	19.0	23.0	23.0	16.0
8	15.0	5.0	6.0	1.0	0.0	7.0	7.0	10.0	19.0	22.0	22.0	16.0
9	14.5	5.0	5.5	0.5	0.0	6.0	6.0	10.5	20.0	23.0	22.0	17.0
10	14.0	5.0	5.0	0.5	0.0	5.0	5.0	11.5	21.0	23.0	22.0	17.0
11	14.0	4.5	4.0	0.5	0.0	3.0	3.0	11.5	22.0	23.0	21.5	17.0
12	14.0	4.0	3.5	0.5	0.0	3.0	4.0	11.5	22.0	22.0	21.0	20.0
13	14.5	4.0	2.5	0.0	0.0	2.0	6.0	12.0	20.0	22.0	21.5	20.0
14	15.0	4.5	2.5	0.0	0.0	1.5	7.0	12.0	19.5	23.0	21.0	19.0
15	15.5	6.0	2.0	0.0	0.0	1.5	9.0	13.0	19.5	24.0	21.0	18.0
16	15.0	6.5	1.5	0.0	0.0	1.5	9.0	16.0	20.0	24.0	21.0	17.0
17	12.5	5.0	0.5	0.0	0.0	1.5	4.0	17.5	20.0	23.0	21.5	17.0
18	12.0	5.0	0.0	0.0	0.0	2.0	10.0	17.5	20.0	23.0	21.0	17.0
19	10.5	5.0	0.5	0.0	0.0	2.5	11.0	17.0	20.5	24.0	21.0	16.0
20	10.5	5.0	0.0	0.0	0.0	3.0	11.0	17.0	21.0	23.0	21.0	16.0
21	10.0	4.0	1.0	0.0	1.0	3.0	12.0	15.0	21.0	23.0	22.0	16.0
22	10.0	4.5	0.0	0.5	2.0	2.0	12.0	15.0	21.0	22.0	22.0	15.0
23	10.0	5.0	0.0	0.5	1.5	2.0	13.0	16.0	20.5	23.0	22.5	15.0
24	10.0	5.5	0.0	0.5	1.5	3.0	12.0	16.0	20.0	22.0	22.0	13.0
25	10.0	6.0	0.0	1.5	1.0	3.0	11.0	15.0	19.5	22.0	21.0	12.0
26	10.5	6.5	5.0	2.0	1.0	2.0	10.0	14.0	19.0	20.0	21.0	12.0
27	10.5	6.5	1.0	2.5	1.0	2.5	11.0	13.0	17.5	20.0	21.0	12.0
28	10.5	6.5	3.0	3.0	2.0	3.0	13.0	12.0	17.0	21.0	21.0	12.0
29	10.5	6.5	3.0	3.0	---	3.0	13.5	13.0	18.0	21.0	21.0	13.0
30	10.0	6.5	3.0	3.0	---	3.0	15.5	13.0	19.0	22.0	21.0	14.5
31	10.0	---	3.0	2.5	---	3.0	---	14.5	---	22.5	21.0	---
MONTH	13.0	6.0	2.5	1.0	0.5	3.0	9.0	13.5	19.0	22.5	22.0	16.0

YEAR	MAX	24.0	MIN	0.0	MEAN	10.5

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CONN.

LOCATION.--Lat 41°57'26", long 73°22'11", Litchfield County, at gaging station on left bank at hydroelectric plant at Hartford Electric Light Co., at Falls Village, 1.4 mi (2.3 km) downstream from Hollenbeck River, and at mile 75.9 (122.1 km).

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.										
18...	1300	590	2.2	90	80	31	12	146	0	18
19...	1255	--	--	100	80	--	--	--	--	--
NOV.										
15...	1220	260	--	--	--	--	--	--	--	--
DEC.										
20...	1225	1160	--	--	--	--	--	--	--	--
JAN.										
22...	1555	1770	--	--	--	--	--	--	--	--
FEB.										
20...	1430	1150	--	--	--	--	--	--	--	--
MAR.										
19...	1500	2500	--	--	--	--	--	--	--	--
APR.										
23...	1540	1700	--	--	--	--	--	--	--	--
MAY										
22...	1400	1850	3.0	60	40	27	9.2	109	0	11
JUNE										
19...	1330	1150	--	--	--	--	--	--	--	--
JULY										
19...	1515	242	--	--	--	--	--	--	--	--
AUG.										
27...	1605	163	--	--	--	--	--	--	--	--
SEP.										
26...	1420	1150	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL SUL-FIDE (S) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.									
18...	25	--	.18	--	--	--	.02	.03	.63
19...	--	--	--	--	--	--	--	--	--
NOV.									
15...	--	--	--	--	--	--	--	--	--
DEC.									
20...	--	--	--	--	--	--	--	--	--
JAN.									
22...	--	--	--	--	--	--	--	--	--
FEB.									
20...	--	--	--	--	--	--	--	--	--
MAR.									
19...	--	--	--	--	--	--	--	--	--
APR.									
23...	--	--	--	--	--	--	--	--	--
MAY									
22...	14	.5	.08	.07	.03	.00	.05	.06	.31
JUNE									
19...	--	--	--	--	--	--	--	--	--
JULY									
19...	--	--	--	--	--	--	--	--	--
AUG.									
27...	--	--	--	--	--	--	--	--	--
SEP.									
26...	--	--	--	--	--	--	--	--	--

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CONN.--Continued

DRAINAGE AREA.--634 mi² (1,642 km²).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT. 18...	.05	.69	.53	.65	1.3	5.9	127	7
MAY 22...	.02	.33	.29	.34	.67	3.0	110	16

DATE	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 18...	5.0	120	--	0	--	--	6.0
MAY 22...	8.7	89	.00	1	8	.0	2.5

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT. 18...	335	7.6	9.0	9.0	11.3	97	2000	24	32	--
NOV. 15...	290	7.1	19.5	6.0	9.4	75	--	--	--	--
DEC. 20...	240	7.1	.5	1.0	11.6	82	--	--	--	--
JAN. 22...	278	7.2	6.5	1.0	10.0	70	--	--	--	--
FEB. 20...	300	7.1	4.5	1.0	10.0	70	--	--	--	--
MAR. 19...	177	7.4	9.0	2.0	11.6	84	--	--	--	--
APR. 23...	210	7.1	21.0	12.5	9.1	85	--	--	--	--
MAY 22...	209	7.3	32.0	15.5	5.5	55	--	--	--	12
JUNE 19...	248	7.3	27.0	21.0	8.0	90	--	--	--	--
JULY 19...	242	8.5	29.0	23.0	10.0	116	--	--	--	--
AUG. 27...	295	8.5	27.0	22.0	9.2	105	--	--	--	--
SEP. 26...	220	9.0	18.5	11.0	9.0	82	--	--	--	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)
OCT. 19...	100	<2	<5	30	5	<2	<5	6	<2	<5	3

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
OCT. 19...	<5	<2	<5	0	52	<5	<4	<2.0	15	<7

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)
OCT. 18...	.00	.0	.0	0	.00	.4	.00	.2	.00	.0	.00	.2

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)
OCT. 18...	.00	.0	.00	.0	.00	.0	.00	.0	0	0	.00	0

DATE	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	PCB (UG/L)
OCT. 18...	.00	0	.02	0	.00	.00	.00	.00	.00	.00	.00	.0

DATE	PCB IN BOTTOM DE-POSITS (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	IN-ORGANIC CARBON IN BED MA-TERIAL (G/KG)	ORGANIC CARBON IN BED MA-TERIAL (C) (G/KG)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)
OCT. 18...	40	3	8	33	76	12	.8	230	11	4.8	2	0

DATE	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL STRON-TIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
OCT. 18...	3	5	8	29000	<5	780	.0	5	2	15	39

01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CONN.

LOCATION.--Lat 41°39'32", long 73°31'44", Dutchess County, New York, at gaging station on right bank 0.1 mi (0.2 km) downstream from Deuel Hollow Brook, 1.2 mi (1.9 km) upstream from New York-Connecticut State line, 1.7 mi (2.7 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of Gaylordsville.

DRAINAGE AREA.--203 mi² (526 km²).

PERIOD OF RECORD.--Chemical analysis: October 1958 to September 1959, October 1972 to September 1974. Water temperatures: October 1958 to September 1959.

REMARKS.--Records of iron, specific conductance, and pH of daily samples for 1958-59 available in district office at Hartford, Connecticut.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT.												
25...	1020	48	2.2	--	--	40	--	0	--	47	--	22
NOV.												
20...	1100	52	1.7	--	--	40	--	10	--	49	--	22
DEC.												
19...	1115	253	5.0	--	--	190	--	30	--	29	--	13
JAN.												
23...	1055	604	4.8	--	--	630	--	50	--	30	--	13
FEB.												
21...	1130	464	4.1	--	--	500	--	30	--	32	--	13
MAR.												
20...	1100	528	3.9	--	--	310	--	30	--	28	--	12
APR.												
16...	1210	895	3.0	<1	20	820	1	40	<.5	--	24	--
MAY												
14...	1540	676	4.2	--	--	560	--	80	--	--	26	--
JUNE												
25...	1500	117	5.5	--	--	300	--	30	--	--	40	--
JULY												
25...	0715	58	--	--	--	200	--	20	--	--	41	--
AUG.												
15...	1015	35	--	1	10	50	3	70	<.5	--	34	--
SEP.												
19...	0903	61	--	--	--	190	--	280	--	--	42	--

DATE	TOTAL MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT.												
25...	--	231	0	9.7	--	3.0	--	14	20	.3	--	.10
NOV.												
20...	--	227	0	9.0	--	2.8	--	15	22	.2	--	.08
DEC.												
19...	--	129	0	6.3	--	.6	--	7.8	20	.2	--	.03
JAN.												
23...	--	123	0	5.9	--	1.7	--	9.5	19	.0	--	.03
FEB.												
21...	--	135	0	6.5	--	1.9	--	9.8	18	.2	--	.02
MAR.												
20...	--	121	0	4.3	--	1.8	--	8.6	18	.1	--	.01
APR.												
16...	9.8	107	0	--	3.2	--	1.7	6.6	16	--	.1	--
MAY												
14...	12	110	0	--	4.0	--	1.5	5.8	15	--	.2	--
JUNE												
25...	17	187	0	--	5.9	--	1.8	10	19	--	.2	--
JULY												
25...	18	188	0	--	10	--	2.1	17	21	--	--	--
AUG.												
15...	17	198	0	--	7.7	--	2.1	13	22	--	--	--
SEP.												
19...	16	205	0	--	7.9	--	1.9	13	19	--	--	--

0120000 TENMILE RIVER NEAR GAYLORDSVILLE, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.												
25...	.31	--	.12	.01	.01	.79	.80	.21	.22	1.0	4.5	232
NOV.												
20...	.27	--	.04	.05	.00	.91	.91	.10	.15	1.1	4.7	234
DEC.												
19...	.10	--	.04	.03	.00	.89	.90	.12	.15	1.0	4.6	144
JAN.												
23...	.04	--	.05	.06	.02	1.1	1.1	.22	.28	1.4	6.1	144
FEB.												
21...	.06	--	.03	.13	.01	1.3	1.3	.17	.30	1.6	7.1	150
MAR.												
20...	.03	--	.03	.12	.00	1.2	1.2	.03	.15	1.3	6.0	136
APR.												
16...	--	.02	.04	.07	.01	.73	.74	.10	.17	.91	4.0	--
MAY												
14...	--	.02	.04	.03	.02	.48	.50	.19	.22	.72	3.2	--
JUNE												
25...	--	.07	.09	.00	.03	1.1	1.1	.26	.26	1.4	6.0	--
JULY												
25...	--	.03	.05	.19	.01	.67	.68	.07	.26	.94	4.2	--
AUG.												
15...	--	.02	.04	.24	.01	.41	.42	.12	.36	.78	3.5	--
SEP.												
18...	--	.03	.05	.14	.00	.42	.42	.09	.23	.65	2.9	--

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	RESIDUE ON IGNI-TION (MG/L)	FIXED FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TUR-BID-ITY (JTU)
OCT.											
25...	30.1	182	8	8	8	244	208	18	9.3	189	--
NOV.											
20...	34.1	196	2	3	3	252	210	27	1.4	186	--
DEC.											
19...	101	125	9	11	9	155	130	20	16	106	--
JAN.											
23...	249	124	16	20	16	153	130	28	31	101	--
FEB.											
21...	143	136	9	11	9	140	130	23	3.4	111	--
MAR.											
20...	195	118	21	26	21	157	120	20	31	99	--
APR.											
16...	--	119	--	16	11	136	--	--	2.7	88	--
MAY											
14...	--	96	--	12	8	157	--	--	.7	90	--
JUNE											
25...	--	170	--	8	4	223	--	--	2.4	153	--
JULY											
25...	--	156	--	6	5	248	--	--	15	156	3
AUG.											
15...	--	166	--	2	0	224	--	--	1.3	162	2
SEP.											
18...	--	173	--	2	1	224	--	--	2.1	168	9

0120000 TENMILE RIVER NEAR GAYLORDSVILLE, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
25...	--	.0	435	7.6	12.0	10.0	11.4
NOV.							
20...	--	.0	422	8.4	2.5	5.5	13.8
DEC.							
19...	--	.0	277	7.1	6.0	.0	11.6
JAN.							
23...	--	.0	274	6.8	2.0	1.0	13.2
FEB.							
21...	--	.0	285	7.8	1.0	5.0	13.2
MAR.							
20...	--	.0	256	6.8	1.0	3.0	12.4
APR.							
16...	--	.0	345	7.8	10.0	10.0	11.5
MAY							
14...	--	.0	275	8.4	24.0	14.5	11.7
JUNE							
25...	--	.0	290	8.1	18.0	17.0	9.2
JULY							
25...	3	--	346	7.3	17.5	17.5	8.6
AUG.							
15...	3	--	350	8.4	--	20.0	9.2
SEP.							
18...	1	--	400	8.2	16.0	15.0	10.0

DATE	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.							
25...	101	2800	40	--	5	.3	9
NOV.							
20...	109	88	210	--	4	.3	8
DEC.							
19...	79	810	64	--	5	.2	7
JAN.							
23...	94	850	420	--	7	.2	8
FEB.							
21...	92	4200	52	--	8	.2	7
MAR.							
20...	94	110	324	--	9	.2	7
APR.							
16...	100	48	73	--	8	--	--
MAY							
14...	115	350	230	--	11	--	--
JUNE							
25...	95	4300	335	--	8	--	--
JULY							
25...	89	410	370	--	7	--	--
AUG.							
15...	100	--	--	2.6	8	--	--
SEP.							
18...	99	--	--	--	6	--	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01200600 HOUSATONIC RIVER NEAR NEW MILFORD, CONN.

LOCATION.--Lat 41°35'35", long 73°27'00", Litchfield County, at Boardman Bridge, 2.3 mi (3.7 km) northwest of New Milford.

DRAINAGE AREA.--1,022 mi² (2,647 km²).

PERIOD OF RECORD.--Chemical analyses: November 1961, July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY												
22...	1410	1010	1.9	10	30	0	10	35	13	149	0	13
AUG.												
19...	1300	979	.8	0	30	10	0	28	13	139	0	17
SEP.												
16...	1500	1030	2.3	10	29	0	0	31	10	126	1	13

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS- SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY												
22...	19	.09	.26	.33	.02	.02	.29	.30	1.3	181	494	.25
AUG.												
19...	23	.10	.14	.18	.01	.11	.25	.26	1.2	190	502	.26
SEP.												
16...	18	.08	.25	.32	.10	.30	.55	.65	2.9	162	451	.22

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY											
22...	198	140	19	.9	122	0	.00	2	1	.0	250
AUG.											
19...	216	130	12	1.1	114	0	.00	4	10	.0	270
SEP.											
16...	178	120	14	.3	105	0	.01	2	7	.0	240

DATE	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
22...	8.6	26.5	23.0	10.0	118	100	55	55	27	1.5	4.8
AUG.											
19...	8.3	27.0	24.0	9.1	108	520	79	48	40	4.0	6.3
SEP.											
16...	8.8	20.0	20.0	11.5	126	800	120	40	30	6.0	8.0

01201485 STILL RIVER AT BROOKFIELD CENTER, CONN.

LOCATION.--Lat 41°27'53", long 73°23'47", Fairfield County, at bridge on State Highway 133 at Brookfield Junction, 0.8 mi (1.3 km) southwest of Brookfield Center.

DRAINAGE AREA.--60.6 mi² (157.0 km²).

PERIOD OF RECORD.--Chemical analyses: October 1970, July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY 22...	1545	24	7.4	40	60	70	20	36	12	131	0	38
AUG. 19...	1500	26	7.8	20	50	120	20	28	10	120	0	35
SEP. 16...	1715	43	7.8	40	50	170	20	26	11	145	0	32

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY 22...	35	1.2	3.6	4.6	2.1	.00	3.4	5.5	24	273	17.7	.37
AUG. 19...	32	.92	2.2	2.8	1.8	.60	2.8	4.6	20	236	16.6	.32
SEP. 16...	25	.60	2.0	2.6	1.1	.30	2.3	3.4	15	231	26.8	.31

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY 22...	281	140	32	11	107	1	.01	4	5	.2	370
AUG. 19...	259	110	13	12	98	0	.01	6	20	.2	330
SEP. 16...	257	110	0	7.3	119	0	.03	4	10	.2	350

DATE	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 22...	7.3	27.0	22.0	5.6	64	5000	50	B15	4.0	.0	9.8
AUG. 19...	7.2	29.0	22.5	6.6	76	8900	150	28	12	2.0	7.6
SEP. 16...	7.5	22.0	17.0	7.0	72	8000	300	76	7.0	4.0	1.3

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01201700 LAKE LILLINONAH NEAR BROOKFIELD CENTER, CONN.

LOCATION.--Lat 41°28'47", long 73°21'04", on Fairfield-Litchfield County line, at bridge on State Highway 133, 2.1 mi (3.4 km) northeast of Brookfield Center.

DRAINAGE AREA.--1,214 mi² (3,144 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JULY 23...	1020	2.2	10	30	0	10	26	9.6	100	0	12
AUG. 20...	1030	1.8	0	20	10	10	24	12	109	0	13
SEP. 17...	1040	1.2	10	20	10	10	26	9.2	104	0	13

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JULY 23...	17	.08	.47	.61	.10	.13	.60	.70	3.1	156	.21
AUG. 20...	18	.06	.29	.37	.03	.36	.65	.68	3.0	--	--
SEP. 17...	15	.06	.23	.30	.11	.35	.58	.69	3.1	125	.17

DATE	TOTAL ACIDI-TY (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JULY 23...	267	110	27	5.1	82	0	.00	1	10	.0	215
AUG. 20...	155	120	32	9.7	89	0	.00	4	10	.0	265
SEP. 17...	144	100	18	.8	85	2	.01	3	6	.0	210

DATE	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL. UNITS PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 23...	7.5	25.0	29.0	10.0	123	1500	<1	12	6.0	5.5	5.3
AUG. 20...	7.1	25.5	25.0	7.6	92	B1200	2	4	10	.0	7.3
SEP. 17...	8.3	22.0	21.0	9.6	108	200	2	1	21	3.0	5.0

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01203000 SHEPAUG RIVER NEAR ROXBURY, CONN.

LOCATION.--Lat 41°32'59", long 73°19'49", Litchfield County, at Mellers Bridge, 1.2 mi (1.9 km) southwest of Roxbury.

DRAINAGE AREA.--132 mi² (343 km²).

PERIOD OF RECORD.--Chemical analyses: September 1953, April 1954, October 1958 to September 1959, July to September 1974.
Water temperatures: October 1958 to September 1959.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
JULY												
23...	0900	20	1.1	0	130	40	0	13	4.4	44	0	12
AUG.												
20...	0910	18	1.3	0	120	40	0	10	4.2	41	0	11
SEP.												
17...	0900	40	.6	10	110	30	10	12	4.3	45	0	11

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)
JULY												
23...	17	.06	.31	.40	.01	.00	.31	.32	1.4	83	4.48	.11
AUG.												
20...	12	.03	.14	.18	.13	.15	.29	.42	1.9	95	4.62	.13
SEP.												
17...	8.7	.05	.26	.33	.01	.06	.32	.33	1.5	64	6.91	.09

DATE	TOTAL RESI- DUE (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
JULY											
23...	91	51	14	5.6	36	0	.00	1	3	.0	122
AUG.											
20...	96	42	9	8.3	34	0	.00	1	7	.0	119
SEP.											
17...	83	48	11	3.6	37	3	.01	3	3	.0	119

DATE	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
23...	7.1	20.0	19.0	9.2	99	1200	40	110	4.5	1.0	3.6
AUG.											
20...	6.9	22.0	19.0	8.5	91	1500	60	110	4.0	.0	4.7
SEP.											
17...	7.3	14.5	14.0	10.0	97	210	46	64	14	4.0	6.2

01204000 POMPERAUG RIVER AT SOUTHBURY, CONN.

LOCATION.--Lat 41°28'50", long 73°15'30", New Haven County, at gaging station on right bank 200 ft (60 m) upstream from bridge on Poverty Road, 800 ft (250 m) downstream from Bullet Hill Brook, 0.6 mi (1.0 km) west of Southbury, and 5.8 mi (9.3 km) upstream from mouth.

DRAINAGE AREA.--75.0 mi² (194.2 km²).

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
OCT.												
10...	1525	16	--	80	55	--	--	--	--	--	--	--
10...	1535	16	8.3	70	70	17	4.2	45	0	7.5	2.5	16
NOV.												
04...	1540	96	9.6	--	100	13	4.9	36	0	--	--	14
DEC.												
11...	1540	215	6.6	--	140	7.6	2.6	16	5	--	--	8.7
JAN.												
15...	1605	133	8.5	80	60	10	3.0	22	0	--	--	11
FEB.												
17...	1535	136	8.0	70	60	10	3.0	19	0	--	--	12
MAR.												
17...	1430	110	7.5	90	40	9.0	2.8	20	0	--	--	12
APR.												
17...	1630	230	5.8	80	110	7.7	2.2	17	0	--	--	9.3
MAY												
16...	1550	216	6.2	80	25	6.4	2.7	19	0	--	--	8.6
JUNE												
11...	1400	35	8.1	100	60	13	3.7	32	0	--	--	16
JULY												
23...	1635	13	7.2	100	60	17	4.2	44	0	--	--	17
AUG.												
20...	1530	15	8.3	100	90	16	4.6	42	0	--	--	17
SEP.												
17...	1400	34	8.3	110	90	15	3.6	40	0	--	--	15

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SULFIDE (S) (MG/L)	TOTAL SULFIDE (S) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC PHOSPHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	DIS. SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.												
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	15	--	--	.5	.03	--	--	--	--	.12	.15	.68
NOV.												
04...	16	--	--	--	.11	.11	.09	--	--	.13	.17	.71
DEC.												
11...	14	.3	--	--	.04	.06	.02	--	--	.09	.12	.56
JAN.												
15...	15	.0	--	--	.04	.04	.02	--	--	.03	.04	.91
FEB.												
17...	14	.0	--	--	.03	.01	.02	--	--	.01	.01	.82
MAR.												
17...	15	.3	--	--	.03	.02	.03	--	--	.06	.08	.65
APR.												
17...	13	--	.5	--	.06	.04	--	.02	.00	.06	.10	.53
MAY												
16...	14	--	.4	--	.06	.03	--	.01	.00	.03	.04	.36
JUNE												
11...	15	--	.5	--	.10	.08	--	.08	.00	.06	.08	.71
JULY												
23...	17	--	--	--	.27	--	--	--	--	.27	.35	--
AUG.												
20...	17	--	--	--	.21	--	--	--	--	.16	.21	--
SEP.												
17...	15	--	--	--	.13	--	--	--	--	.13	.17	--

01204000 POMPERAUG RIVER AT SOUTHBURY, CONN.--Continued

PERIOD OF RECORD.--Chemical analyses: October 1960 to September 1961, April 1965 to September 1967, June 1968 to September 1974 (discontinued).
Water temperatures: October 1960 to September 1961, November 1966 to October 1967.

REMARKS.--Records of iron, specific conductance, and pH of daily samples for 1960-61 available in district office at Hartford, Conn.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT. 10...	.01	.66	.11	.23	.92	4.1	--	93	6.02	.13	--	60
NOV. 08...	.00	.72	.19	.31	1.0	4.6	101	--	9.02	.14	--	49
DEC. 11...	.00	.56	.00	.09	.65	2.9	56	--	32.5	.08	--	30
JAN. 15...	.01	.62	.12	.15	1.1	4.7	77	--	27.7	.10	--	37
FEB. 12...	.00	.62	.15	.16	1.1	4.8	77	--	20.7	.10	--	37
MAR. 12...	.01	.66	.56	.12	.78	3.5	66	--	20.5	.09	--	34
APR. 17...	.02	.55	.11	.19	.74	3.3	--	--	--	--	--	20
MAY 14...	.01	.35	.15	.18	.53	2.3	--	--	--	--	--	30
JUNE 11...	.01	.72	.21	.26	.98	4.3	--	--	--	--	--	48
JULY 23...	--	.64	.52	.29	.78	3.5	122	--	4.20	.17	116	60
AUG. 20...	--	.73	.18	.36	1.1	4.7	--	--	2.66	.08	122	53
SEP. 17...	--	.63	.21	.36	.97	4.3	106	--	9.55	.14	101	52

DATE	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 10...	23	5.7	37	--	--	0	1	--	--	3.5	3.5
NOV. 06...	16	7.3	30	--	--	0	1	3	.0	6.0	6.0
DEC. 11...	17	5.1	13	--	.01	--	2	17	.0	2.0	2.0
JAN. 15...	21	6.6	16	--	.00	0	1	6	.0	2.5	2.5
FEB. 12...	22	3.0	16	--	.00	16	1	4	.0	.0	.0
MAR. 12...	18	5.1	16	--	.00	0	1	2	.0	--	--
APR. 17...	16	4.3	14	--	.00	0	2	10	.0	--	--
MAY 14...	16	6.1	16	--	.00	0	1	18	.0	--	--
JUNE 11...	21	4.6	26	--	.00	0	1	3	.0	--	2.2
JULY 23...	26	4.6	36	0	.01	--	1	2	.0	--	2.1
AUG. 20...	19	5.3	34	0	.00	--	2	3	.0	--	4.3
SEP. 17...	19	1.2	33	0	.01	--	1	2	.0	--	4.0

01204000 POMPERAUG RIVER AT SOUTHBURY, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.												
18...	172	7.1	18.5	14.5	8.3	89	1700	60	26	--	--	--
NOV.												
08...	165	6.9	5.0	6.5	--	--	225	24	36	--	--	7
DEC.												
11...	47	6.7	3.5	6.0	11.0	88	310	240	1000	--	--	16
JAN.												
15...	130	6.7	3.0	1.0	11.5	81	110	100	120	--	--	6
FEB.												
12...	126	7.0	3.0	1.5	11.9	85	85	44	5	--	--	5
MAR.												
12...	122	6.6	6.0	5.0	12.0	94	6	3	3	--	--	6
APR.												
17...	98	6.8	19.0	9.5	12.3	106	260	49	5	--	--	7
MAY												
14...	88	6.7	22.0	14.0	9.5	92	240	110	34	--	--	9
JUNE												
11...	130	6.9	28.0	24.0	8.2	98	4600	260	120	--	--	8
JULY												
23...	153	7.2	25.5	21.5	10.5	119	2200	120	120	2.7	.3	--
AUG.												
27...	152	7.1	31.5	23.0	9.0	105	4400	140	160	3.5	1.0	--
SEP.												
17...	145	7.7	23.5	16.5	10.6	108	260	120	65	2.5	1.0	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)
OCT.											
10...	20	0	<3	23	<1	<1	--	<2	0	<1	<2
18...	--	--	--	--	--	--	0	--	5	--	--
JULY											
23...	--	--	--	--	--	--	--	--	0	--	--
AUG.											
28...	--	--	--	--	--	--	--	--	0	--	--
SEP.											
17...	--	--	--	--	--	--	--	--	10	--	--

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.										
10...	1	<2	<1	<2	0	60	<2	<2	<1.0	--
18...	--	1	--	--	--	--	--	--	--	20
JULY										
23...	--	--	--	--	--	--	--	--	--	10
AUG.										
28...	--	--	--	--	--	--	--	--	--	0
SEP.										
17...	--	--	--	--	--	--	--	--	--	20

01204000 POMPERAUG RIVER AT SOUTHBURY, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)
OCT. 10...	.00	.0	.0	1	.00	.8	.00	.4	.00	2.0	.00	.1

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)
OCT. 10...	.00	.0	.00	.0	.00	.0	.00	.0	0	0	.02	0

DATE	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	PCB (UG/L)
OCT. 10...	.00	0	.00	0	<.01	.00	.00	.00	.00	.00	.00	.0

DATE	PCB IN BOTTOM DE-POSITS (UG/KG)	SED MAT. FALL DIAM. % FINER THAN .004 MM	SED MAT. FALL DIAM. % FINER THAN .062 MM	SED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	IN-ORGANIC CARBON IN BED MA-TERIAL (G/KG)	ORGANIC CARBON IN BED MA-TERIAL (C) (G/KG)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)
OCT. 10...	<5	1	5	75	36	4.0	.0	60	.0	1.6	0	0

DATE	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL STRON-TIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
OCT. 10...	2	2	5	6400	5	200	.0	<2	0	2	15

01204510 LAKE ZOAR AT RIVERSIDE, CONN.

LOCATION.--Lat 41°26'21", long 73°14'53", on Fairfield-New Haven County line, at bridge on U.S. Highway 6 and 202 at Riverside, 3.4 mi (5.5 km) southwest of Southbury.

DRAINAGE AREA.--1,511 mi² (3,913 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JULY											
23...	1315	2.2	10	20	0	10	27	9.4	106	0	13
AUG.											
20...	1245	2.9	0	20	40	20	24	10	106	0	14
SEP.											
17...	1255	2.7	10	30	20	20	25	8.6	100	0	12

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JULY											
23...	17	.08	.41	.53	.20	.21	.62	.82	3.6	160	.22
AUG.											
20...	16	.10	.45	.58	.18	.20	.65	.83	3.7	170	.23
SEP.											
17...	16	.07	.23	.30	.30	.11	.34	.64	2.8	126	.17

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JULY											
23...	154	110	19	1.7	87	0	.01	3	3	.0	215
AUG.											
20...	152	100	14	13	87	0	.00	1	2	.0	220
SEP.											
17...	147	98	16	4.0	82	3	.01	1	6	.0	208

DATE	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
23...	8.0	25.0	23.0	6.5	76	56	6	6	30	4.0	.2
AUG.											
20...	7.1	29.5	24.5	4.5	55	180	41	18	11	3.0	4.6
SEP.											
17...	7.4	23.0	19.0	6.0	64	130	8	7	9.0	3.0	5.0

01205000 LAKE ZOAR AT STEVENSON, CONN.

LOCATION.--Lat 41°23'00", long 73°10'18", Fairfield County, at gaging station on Housatonic River at tailrace of dam of Connecticut Light and Power Company at Stevenson, 0.2 mi (0.3 km) upstream from gaging station, and 0.4 mi (0.6 km) upstream from Eightmile Brook.

DRAINAGE AREA.--1,541 mi² (3,991 km²).

PERIOD OF RECORD.--Water temperatures: October 1960 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 27.0°C July 4-6, 8, 16-19, Aug. 2-4, 8, 13-16, 25, 29, 30; minimum, 0.5°C Jan. 21.

Period of record:
Water temperatures: Maximum, 32.0°C, July 17, 1968; minimum, freezing point on many days during winter months.

REMARKS.--Records furnished by the Connecticut Light and Power Company.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.5	14.0	8.0	1.0	3.0	3.0	4.0	15.0	16.0	23.0	26.0	26.0
2	20.5	14.0	8.0	1.0	3.0	4.0	5.0	15.0	16.5	24.5	27.0	26.0
3	21.0	13.0	7.0	3.0	2.0	4.0	6.0	14.0	17.0	26.0	27.0	26.0
4	22.0	13.0	8.0	4.0	2.0	1.0	6.0	14.0	18.0	27.0	27.0	26.0
5	21.0	12.0	7.0	4.0	1.0	2.0	6.0	15.0	19.0	27.0	---	22.0
6	20.0	12.0	7.0	3.0	2.0	3.5	6.0	14.0	20.0	27.0	---	22.0
7	20.0	12.0	7.0	2.0	2.0	3.5	6.0	14.0	20.0	26.0	---	22.0
8	20.0	12.0	7.0	1.0	2.0	3.5	7.0	14.0	19.0	27.0	27.0	22.0
9	19.0	12.0	7.0	1.0	2.0	3.5	8.0	14.0	23.0	26.5	26.0	22.0
10	19.0	11.0	7.0	1.0	2.0	3.5	8.0	14.0	24.0	26.5	26.0	23.0
11	19.0	11.0	7.0	1.0	2.0	3.5	8.0	14.0	25.0	24.0	26.0	22.0
12	19.0	11.0	7.0	1.0	2.0	3.0	9.0	14.0	23.0	24.0	26.0	23.0
13	19.0	12.0	7.0	1.0	2.0	3.0	9.0	14.0	24.0	25.0	27.0	25.0
14	19.0	11.0	6.0	1.0	2.0	3.0	8.0	14.0	23.0	26.0	27.0	24.0
15	19.0	11.0	6.0	1.0	1.5	3.5	9.0	15.0	21.0	26.0	27.0	23.0
16	19.0	11.0	6.0	1.0	1.5	4.0	8.5	16.0	22.0	27.0	27.0	23.0
17	19.0	11.0	6.0	1.0	1.0	4.0	9.0	18.0	22.0	27.0	25.0	22.0
18	18.0	10.0	5.0	1.0	1.0	5.0	10.0	19.0	22.0	27.0	25.0	22.0
19	17.0	10.0	3.0	1.0	2.0	5.0	10.0	19.0	24.0	27.0	26.0	22.0
20	17.0	9.0	3.0	1.0	2.0	5.0	9.0	18.0	24.0	24.0	26.0	22.0
21	17.0	9.0	3.5	0.5	1.0	5.0	10.0	17.5	24.0	25.0	26.0	22.0
22	17.0	9.0	3.0	1.0	1.0	4.5	12.0	20.0	25.0	26.0	26.0	22.0
23	17.0	9.0	2.0	1.0	1.0	6.0	13.0	18.0	24.0	25.0	26.0	21.5
24	17.0	9.0	1.0	1.0	1.0	5.0	12.0	18.0	24.0	25.0	26.0	21.0
25	15.5	9.0	1.0	1.0	1.0	3.0	12.0	18.0	24.0	24.5	27.0	21.0
26	15.0	9.0	1.0	1.0	1.0	4.0	11.0	18.0	22.0	24.5	26.0	20.5
27	15.0	9.0	1.0	1.0	1.0	4.5	14.0	16.0	21.0	25.0	26.0	21.0
28	15.0	9.0	1.0	1.0	2.0	4.0	14.0	17.0	21.0	25.0	26.5	19.5
29	15.0	8.0	1.0	1.0	---	5.0	15.0	16.0	22.0	24.5	27.0	19.0
30	16.0	8.0	1.0	2.0	---	4.0	15.0	16.5	22.5	24.0	27.0	18.5
31	16.0	---	1.0	3.0	---	4.0	---	16.5	---	25.5	26.0	---
MONTH	18.0	10.5	4.5	1.5	1.5	4.0	9.5	16.0	22.0	25.5	26.5	22.5
YEAR	MAX	27.0	MIN	0.5	MEAN	13.5						

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.

LOCATION.--Lat 41°23'02", long 73°10'05", Fairfield County and New Haven County, at gaging station on left bank, 0.2 mi (0.3 km) downstream from dam of Connecticut Light and Power Company at Stevenson, Fairfield County, 0.2 mi (0.3 km) upstream from Eightmile Brook, and at mile 19.2 (30.9 km).

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
10...	1310	1370	--	10	28	--	--	--	--	--	--	--
10...	1315	1370	2.3	40	10	30	11	120	0	9.5	2.2	15
NOV.												
06...	1400	67	1.6	--	440	24	9.7	106	0	--	--	15
DEC.												
11...	1410	6380	2.9	--	480	23	8.7	93	0	--	--	13
JAN.												
15...	1440	4700	5.0	150	30	20	7.8	82	0	--	--	11
FEB.												
12...	1410	5500	4.5	50	40	19	21	72	0	--	--	10
MAR.												
12...	1415	5520	4.6	90	250	20	7.8	76	0	--	--	11
APR.												
17...	1320	7100	3.6	80	20	17	6.0	66	0	--	--	9.7
MAY												
14...	1410	6330	2.9	40	10	22	7.7	87	0	--	--	10
JUNE												
11...	1255	5430	1.9	50	50	23	8.2	88	0	--	--	10
JULY												
23...	1450	4200	2.2	30	80	28	9.2	109	0	--	--	13
AUG.												
20...	1410	4350	2.8	40	150	22	9.2	100	0	--	--	13
SEP.												
17...	1435	5600	3.4	40	60	24	8.0	90	0	--	--	12

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	TOTAL SULFIDE (S) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.												
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	17	--	--	.4	.05	--	--	--	--	.07	.09	.51
NOV.												
06...	18	--	--	--	.07	.06	.05	--	--	.09	.12	.39
DEC.												
11...	18	.0	--	--	.13	.09	.05	--	--	.25	.32	.40
JAN.												
15...	15	.0	--	--	.04	.04	.02	--	--	.09	.12	.59
FEB.												
12...	14	.0	--	--	.03	.03	.02	--	--	.13	.17	.58
MAR.												
12...	15	.0	--	--	.05	.04	.03	--	--	.17	.22	.56
APR.												
17...	14	--	1.4	--	.04	.03	--	.02	.00	.12	.15	.40
MAY												
14...	14	--	.0	--	.06	.05	--	.02	.00	.13	.17	.32
JUNE												
11...	14	--	.0	--	.04	.03	--	.01	.00	.07	.09	.26
JULY												
23...	17	--	--	--	.05	--	--	--	--	.30	.39	--
AUG.												
20...	15	--	--	--	.05	--	--	--	--	.23	.30	--
SEP.												
17...	14	--	--	--	.06	--	--	--	--	.34	.44	--

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--Continued

DRAINAGE AREA.--1,541 mi^2 (3,991 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1968 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.												
10...	.00	.52	.22	.29	.81	3.6	--	147	344	.20	--	120
NOV.												
06...	.01	.40	.30	.39	.79	3.5	155	--	28.0	.21	--	100
DEC.												
11...	.01	.41	.22	.67	.08	3.9	147	--	2530	.20	--	93
JAN.												
15...	.01	.60	.19	.28	.88	3.9	17	--	216	.02	--	82
FEB.												
12...	.00	.58	.12	.25	.83	3.7	112	--	1660	.15	--	134
MAR.												
12...	.01	.57	.11	.28	.85	3.8	112	--	1670	.15	--	82
APR.												
17...	.01	.41	.09	.21	.62	2.7	--	--	--	--	--	67
MAY												
14...	.02	.34	.30	.43	.77	3.4	--	--	--	--	--	87
JUNE												
11...	.03	.29	.32	.39	.68	3.0	--	--	--	--	--	91
JULY												
23...	--	.32	.14	.44	.76	3.4	166	--	1880	.23	199	110
AUG.												
20...	--	.19	.32	.55	.74	3.3	147	--	1730	.20	157	93
SEP.												
17...	--	.33	.09	.33	.66	2.9	134	--	2030	.18	388	93

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.											
10...	22	3.8	98	--	--	--	1	--	--	11	3.7
NOV.											
06...	13	17	87	--	--	2	1	3	.0	6.0	9.0
DEC.											
11...	17	40	76	--	.00	4	1	16	.0	.0	3.5
JAN.											
15...	15	17	67	--	.01	1	1	7	.0	3.0	5.5
FEB.											
12...	75	7.3	59	--	.00	1	1	6	.0	2.0	.5
MAR.											
12...	20	9.7	62	--	.00	0	1	4	.0	--	--
APR.											
17...	13	2.1	54	--	.00	1	1	10	.0	--	2.6
MAY											
14...	16	8.8	71	--	.00	3	1	5	.0	--	--
JUNE											
11...	14	11	77	--	.00	0	1	8	.0	--	--
JULY											
23...	18	8.7	92	1	.00	--	2	2	.0	--	3.5
AUG.											
20...	11	10	82	0	.00	--	2	4	.0	--	4.9
SEP.											
17...	19	4.6	74	0	.01	--	2	6	.0	--	6.6

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.												
10...	275	7.7	22.0	18.5	8.4	85	650	5	14	--	--	--
NOV.												
06...	260	7.0	9.0	12.0	8.7	80	190	39	10	--	--	16
DEC.												
11...	213	6.7	4.5	6.5	9.7	79	5400	680	1300	--	--	15
JAN.												
15...	205	6.9	4.5	1.5	11.4	81	78	4	10	--	--	6
FEB.												
12...	164	7.2	2.0	2.0	12.7	92	10	4	4	--	--	6
MAR.												
12...	208	7.1	5.5	3.5	11.0	83	12	0	1	--	--	7
APR.												
17...	171	7.7	19.0	7.8	12.6	105	310	46	13	--	--	9
MAY												
14...	187	7.2	22.0	17.5	7.2	69	820	66	370	--	--	11
JUNE												
11...	180	7.1	27.0	18.0	7.5	79	200	2	13	--	--	13
JULY												
23...	215	7.3	25.0	22.5	4.8	55	2200	1	41	4.0	.5	--
AUG.												
20...	200	7.2	29.0	26.0	5.0	60	B1600	16	40	16	3.0	--
SEP.												
17...	204	7.5	23.5	20.0	5.5	60	100	9	10	9.5	1.0	--

DATE	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BISMUTH (BI) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED GALLIUM (GA) (UG/L)	DISSOLVED GERMANIUM (GE) (UG/L)
OCT.											
10...	25	<2	<4	40	2	<2	--	<4	4	<2	<4
10...	--	--	--	--	--	--	0	--	10	--	--
JULY											
23...	--	--	--	--	--	--	--	--	10	--	--
AUG.											
20...	--	--	--	--	--	--	--	--	20	--	--
SEP.											
17...	--	--	--	--	--	--	--	--	10	--	--

DATE	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED TIN (SN) (UG/L)	DISSOLVED TITANIUM (TI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED ZIRCONIUM (ZR) (UG/L)
OCT.											
10...	1	<4	<2	<4	0	55	<4	<3	3.0	8	<6
10...	--	1	--	--	--	--	--	--	--	20	--
JULY											
23...	--	--	--	--	--	--	--	--	--	10	--
AUG.											
20...	--	--	--	--	--	--	--	--	--	20	--
SEP.											
17...	--	--	--	--	--	--	--	--	--	0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)
OCT.												
10...	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00	.1

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DEPOSITS (UG/KG)
OCT.												
10...	.00	.0	.00	.0	.00	.0	.00	.0	0	0	.00	0

DATE	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	DIAZINON (UG/L)	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	PCB (UG/L)
OCT.												
10...	.00	0	.00	0	<.01	.00	.00	.00	.00	.00	.00	.0

DATE	PCB IN BOTTOM DEPOSITS (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)
OCT.												
10...	14	1	2	34	58	4.4	.4	77	.0	1.4	2	0

DATE	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL STRONTIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
OCT.											
10...	2	0	8	7200	<5	830	.0	<2	0	2	23

01205551 HOUSATONIC RIVER AT SHELTON, CONN.

LOCATION.--Lat 41°19'09", long 73°05'30", on Fairfield-New Haven County line, at bridge on Bridge Street, between Shelton and Derby.

DRAINAGE AREA.--1,576 mi² (4,082 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JULY											
24...	1415	1.8	10	20	30	10	27	9.3	105	54	13
AUG.											
21...	1240	2.6	40	100	50	70	23	9.4	97	0	29
SEP.											
18...	1200	2.7	10	30	60	10	24	7.9	95	0	14

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JULY											
24...	18	.05	.28	.36	.23	.20	.48	.71	3.1	163	.22
AUG.											
21...	18	.13	.36	.46	.21	.94	1.3	1.5	6.7	188	.26
SEP.											
18...	17	.10	.27	.35	.31	.68	.95	1.3	5.6	152	.21

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JULY											
24...	160	110	0	6.9	176	0	.01	3	2	.0	212
AUG.											
21...	187	96	17	3.9	80	1	.01	4	20	.2	240
SEP.											
18...	144	92	15	1.0	78	0	.01	2	5	.1	235

DATE	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
24...	7.7	24.5	22.0	8.3	94	2300	54	26	13	.5	3.5
AUG.											
21...	7.6	28.5	25.5	7.4	90	40000	B24000	190	21	11	9.2
SEP.											
18...	8.2	24.0	21.0	8.5	95	14000	4600	96	24	9.0	9.6

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01208500 NAUGATUCK RIVER AT BEACON FALLS, CONN.

LOCATION.--Lat 41°26'32", long 73°03'47", New Haven County, at bridge on Bridge Street, at Beacon Falls.

DRAINAGE AREA.--259 mi² (671 km²).

PERIOD OF RECORD.--Chemical analyses: October 1957 to January 1963, April 1966 to October 1967, October 1970, July to September 1974.
Water temperatures: September 1965 to October 1967.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JULY												
24...	0830	104	6.9	320	40	260	200	26	4.0	56	0	64
AUG.												
21...	0855	103	6.7	30	120	80	50	20	3.6	116	11	75
SEP.												
18...	0815	140	7.3	330	70	290	240	22	3.4	50	0	52

DATE	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)
JULY											
24...	62	1.1	5.3	6.8	1.9	.50	5.8	7.7	34	275	80.9
AUG.											
21...	63	1.2	4.0	5.2	1.6	3.8	7.8	9.4	42	372	103
SEP.											
18...	51	1.3	5.8	7.5	1.4	.40	6.2	7.6	34	227	85.8

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
JULY											
24...	.37	447	81	35	9.0	46	0	.06	10	20	.2
AUG.											
21...	.51	384	65	0	.2	113	3	.03	10	50	.7
SEP.											
18...	.31	240	69	28	13	41	0	--	10	10	.3

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
24...	395	7.0	20.0	21.0	5.8	65	1000	26	20	19	14
AUG.											
21...	500	9.1	21.5	23.0	5.4	63	1400	40	19	27	28
SEP.											
18...	365	6.8	17.0	18.0	7.2	76	29000	190	9.5	8.0	21

01208736 NAUGATUCK RIVER AT ANSONIA, CONN.

LOCATION.--Lat 41°19'50", long 73°04'47", New Haven County, at bridge on Division Street, at Ansonia-Derby town line.

DRAINAGE AREA.--309 mi² (800 km²).

PERIOD OF RECORD.--Chemical analyses: October 1967, July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JULY											
24...	1205	7.5	100	100	250	60	19	4.0	51	0	46
AUG.											
21...	1110	7.1	160	110	290	110	15	3.8	43	0	46
SEP.											
19...	1030	8.3	20	40	300	70	18	3.5	56	0	47

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JULY											
24...	40	1.2	4.2	5.4	1.4	.00	4.2	5.6	25	227	.31
AUG.											
21...	42	1.0	2.5	3.2	2.0	1.4	3.9	5.9	26	216	.29
SEP.											
19...	41	.58	3.8	4.9	1.6	.00	4.0	5.2	23	205	.28

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JULY											
24...	241	64	22	5.2	42	1	.07	7	4	.2	314
AUG.											
21...	234	53	18	6.9	35	2	.03	9	30	.2	295
SEP.											
19...	193	59	13	3.6	46	1	.05	7	4	.1	310

DATE	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
24...	7.2	21.5	23.5	7.4	86	110000	100	46	21	8.7	11
AUG.											
21...	7.0	26.5	25.5	9.6	118	460	32	5	5.0	4.5	9.7
SEP.											
19...	7.4	21.5	19.0	9.3	100	42000	280	76	6.5	7.0	11

01208820 HOUSATONIC RIVER AT STRATFORD, CONN.

LOCATION.--Lat 41°12'01", long 73°06'39", on Fairfield-New Haven County line, at Washington Bridge on U.S. Highway 1, at Stratford.

DRAINAGE AREA.--1,941 mi² (5,027 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DEPTH (FT)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JULY												
15...	1725	2.0	1.1	30	60	50	30	160	490	105	0	6700
15...	1745	14	.9	40	40	60	40	230	670	111	0	10000
AUG.												
12...	1610	3.0	1.0	30	140	50	60	210	640	96	0	11000
12...	1615	11	1.0	40	140	60	50	210	640	98	0	11000
SEP.												
04...	1615	3.0	3.2	40	30	70	30	130	250	96	0	4200
04...	1625	13	2.3	40	70	70	30	210	840	111	0	6800

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESI-DUE (MG/L)
JULY												
15...	1000	.12	.33	.43	.08	.47	.80	.88	3.9	13500	18.4	14200
15...	1400	.12	.31	.40	.03	.38	.69	.72	3.2	19000	25.8	28700
AUG.												
12...	1400	.12	.35	.45	.23	.46	.81	1.0	4.6	22000	29.9	22000
12...	1450	.12	.34	.44	.21	.33	.67	.88	3.9	22000	29.9	22400
SEP.												
04...	540	.15	.44	.57	.35	.18	.62	.97	4.3	8490	11.5	8750
04...	1400	.14	.32	.41	.16	.19	.51	.67	3.0	12800	17.4	25800

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SALIN-ITY (PPT)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JULY											
15...	2400	2300	.7	86	0	.07	2	1	.0	10	16000
15...	3300	3200	4.5	91	0	.02	1	2	.0	13	21000
AUG.											
12...	3200	3100	1.9	79	0	.00	1	1	.1	12	29000
12...	3200	3100	2.0	80	0	.00	1	1	.1	14	31000
SEP.											
04...	1400	1300	3.9	79	0	.01	1	3	.0	6.0	13000
04...	4000	3900	11	91	0	.00	1	1	.0	24	27000

DATE	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
15...	8.4	33.0	26.0	9.6	123	980	100	B11	20	59	4.0
15...	7.6	33.0	23.0	7.2	91	4200	100	B16	34	81	5.2
AUG.											
12...	7.4	27.5	23.0	6.6	93	30	19	2	--	--	2.8
12...	7.4	27.5	23.5	6.5	92	100	30	14	6.5	14	3.7
SEP.											
04...	7.6	25.0	21.0	5.6	77	1600	250	38	9.5	1.0	9.3
04...	7.2	25.0	21.0	4.9	67	940	180	16	6.5	3.5	2.9

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01208990 SAUGATUCK RIVER NEAR REDDING, CONN.

LOCATION.--Lat 41°17'40", long 73°23'44", Fairfield County, at gaging station on downstream side of bridge on State Highway 53, 100 ft (30 m) south of intersection of State Highways 53 and 107, 0.8 mi (1.3 km) upstream from Saugatuck Reservoir, and 1.0 mi (1.6 km) southwest of Redding.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
10...	1120	--	--	17	6	--	--	--	--	--	--	--
10...	1125	2.3	6.4	30	15	26	7.5	84	0	5.5	2.3	9.8
NOV.												
08...	1200	8.0	11	--	240	18	5.8	61	0	--	--	11
DEC.												
11...	1235	85	7.8	--	0	13	4.3	38	0	--	--	10
JAN.												
15...	1310	66	8.9	20	10	15	5.1	49	0	--	--	11
FEB.												
12...	1230	43	8.0	60	20	15	5.0	43	0	--	--	11
MAR.												
12...	1235	42	6.7	40	20	14	4.8	46	0	--	--	12
APR.												
17...	1150	95	4.7	40	170	13	3.7	42	0	--	--	11
MAY												
14...	1200	66	4.3	95	30	13	4.0	48	0	--	--	9.5
JUNE												
11...	1130	11	6.1	140	50	19	5.8	67	0	--	--	12
JULY												
15...	1125	2.5	6.0	40	0	22	6.4	84	0	--	--	11
AUG.												
12...	1030	2.6	6.5	130	20	21	5.5	71	0	--	--	12
SEP.												
09...	1000	39	10	150	20	19	4.9	51	0	--	--	11

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	TOTAL SULFIDE (S) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC PHOSPHORUS (P) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.												
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	14	--	--	.4	.01	--	--	--	--	.17	.22	.02
NOV.												
08...	22	--	--	--	.06	.03	.02	--	--	.01	.01	.03
DEC.												
11...	18	.1	--	--	.01	.00	.00	--	--	.05	.06	.04
JAN.												
15...	16	.0	--	--	.01	.01	.00	--	--	.02	.03	.24
FEB.												
12...	15	.0	--	--	.00	.00	.00	--	--	.01	.01	.28
MAR.												
12...	16	.0	--	--	.01	.00	.05	--	--	.08	.10	.16
APR.												
17...	14	--	1.1	--	.01	.01	--	.00	.00	.14	.18	.05
MAY												
14...	12	--	.9	--	.02	.02	--	.00	.02	.06	.05	.06
JUNE												
11...	12	--	.7	--	.02	.02	--	.01	.00	.13	.06	.16
JULY												
15...	12	--	--	--	.02	--	--	--	--	.26	.31	--
AUG.												
12...	14	--	--	--	.02	--	--	--	--	.19	.24	--
SEP.												
09...	12	--	--	--	.03	--	--	--	--	.27	.35	--

01208990 SAUGATUCK RIVER NEAR REDDING, CONN.--Continued

DRAINAGE AREA.--20.8 mi² (53.9 km²).

PERIOD OF RECORD.--Chemical analyses: June 1968 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT. 10...	.01	.03	.00	.17	.20	.90	--	114	.71	.16	--	91
NOV. 08...	.00	.03	.32	.33	.36	1.6	126	--	2.72	.17	--	72
DEC. 11...	.01	.09	.26	.29	.38	1.7	99	--	22.7	.13	--	50
JAN. 15...	.01	.30	.10	.12	.42	1.9	103	--	12.6	.14	--	58
FEB. 12...	.00	.26	.06	.05	.33	1.5	102	--	11.8	.14	--	58
MAR. 12...	.01	.17	.03	.11	.28	1.2	99	--	11.2	.13	--	55
APR. 17...	.00	.05	.05	.19	.24	1.1	--	--	--	--	--	60
MAY 14...	.01	.05	.16	.22	.27	1.2	--	--	--	--	--	60
JUNE 11...	.01	.19	.27	.30	.49	2.2	--	--	--	--	--	71
JULY 15...	--	.08	.05	.29	.37	1.6	125	--	.84	.17	130	61
AUG. 12...	--	.04	.03	.22	.26	1.2	121	--	.65	.16	276	67
SEP. 09...	--	.08	.16	.43	.51	2.3	109	--	11.5	.15	229	58

DATE	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 10...	18	2.8	73	--	--	0	1	--	--	6.0	2.9
NOV. 08...	22	15	50	--	--	5	1	16	.0	7.0	6.5
DEC. 11...	19	4.6	31	--	.01	0	1	30	.0	2.5	4.5
JAN. 15...	19	4.9	40	--	.00	1	1	12	.0	3.0	4.0
FEB. 12...	21	4.1	37	--	.00	1	1	3	.0	3.0	1.5
MAR. 12...	17	5.3	38	--	.00	1	1	7	.0	--	--
APR. 17...	13	5.3	36	--	.00	2	1	20	.0	--	3.3
MAY 14...	11	4.4	38	--	.00	0	1	30	.0	--	--
JUNE 11...	16	6.8	55	--	.01	1	1	20	.0	--	3.7
JULY 15...	12	6.7	69	0	.00	--	1	10	.0	--	5.0
AUG. 12...	29	7.2	58	1	.00	--	1	5	.0	--	5.8
SEP. 09...	17	5.0	41	0	.01	--	1	20	.0	--	7.0

01208990 SAUGATUCK RIVER NEAR REDDING, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.												
10...	205	7.7	21.0	12.0	10.0	96	1400	12	100	--	--	--
NOV.												
08...	140	6.8	6.5	7.0	9.6	79	66	5	20	--	--	15
DEC.												
11...	135	6.9	4.5	4.0	11.3	86	96	50	140	--	--	16
JAN.												
15...	165	6.8	5.5	1.0	10.0	70	20	16	24	--	--	44
FEB.												
12...	150	6.8	-1.0	1.0	10.8	75	110	1	1	--	--	6
MAR.												
12...	160	6.9	4.0	5.0	11.5	90	24	2	1	--	--	7
APR.												
17...	138	7.1	15.0	9.5	11.8	103	480	5	8	--	--	9
MAY												
14...	132	7.2	21.0	12.0	10.5	97	2000	76	125	--	--	16
JUNE												
11...	155	7.2	25.0	21.5	7.9	91	3400	B76	120	--	--	12
JULY												
15...	155	7.3	28.0	23.0	7.5	87	9400	75	500	.0	2.0	--
AUG.												
12...	149	7.7	24.5	17.5	10.0	106	180	25	190	.7	2.3	--
SEP.												
09...	134	7.2	21.5	15.0	9.6	93	890	100	170	6.5	7.0	--

DATE	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)	DIS- SOLVED GER- MANIUM (GE) (UG/L)
OCT.											
10...	15	<1	<3	14	<2	<2	--	<1	1	<2	<3
10...	--	--	--	--	--	--	3	--	0	--	--
JULY											
15...	--	--	--	--	--	--	--	--	10	--	--
AUG.											
12...	--	--	--	--	--	--	--	--	3	--	--
SEP.											
09...	--	--	--	--	--	--	--	--	0	--	--

DATE	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)	DIS- SOLVED TI- TANIUM (TI) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)
OCT.											
10...	0	<1	<2	<3	0	56	<1	<2	<2.0	6	<5
10...	--	2	--	--	--	--	--	--	--	20	--
JULY											
15...	--	--	--	--	--	--	--	--	--	20	--
AUG.											
12...	--	--	--	--	--	--	--	--	--	50	--
SEP.											
09...	--	--	--	--	--	--	--	--	--	10	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE
(NON-IDEAL COLONY COUNT)

01208990 SAUGATUCK RIVER NEAR REDDING, CONN.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)
OCT. 10...	.00	.0	.0	0	.00	4.4	.00	1.0	.00	36	.00	.6

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)
OCT. 10...	.00	.0	.00	.0	.00	.0	.00	.0	0	0	.02	0

DATE	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	PCB (UG/L)
OCT. 10...	.05	0	.00	0	.00	.00	.00	.00	.00	.00	.00	.0

DATE	PCB IN BOTTOM DE-POSITS (UG/KG)	SED MAT. FALL DIAM. % FINER THAN .004 MM	SED MAT. FALL DIAM. % FINER THAN .062 MM	SED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	IN-ORGANIC CARBON IN SED MA-TERIAL (G/KG)	ORGANIC CARBON IN SED MA-TERIAL (C) (G/KG)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)
OCT. 10...	<5	1	7	67	58	5.7	.2	110	2.8	5.8	2	0

DATE	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL STRON-TIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
OCT. 10...	1	0	3	8100	10	190	.0	<2	0	6	20

01209910 STAMFORD HARBOR AT STAMFORD, CONN.

LOCATION.--Lat 41°01'47", long 73°32'17", Fairfield County, off Cemetery Point, at Stamford.

DRAINAGE AREA.--40.3 mi² (104.4 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DEPTH (FT)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JULY												
15...	1435	6.0	.3	70	180	80	80	300	950	111	0	14000
AUG.												
12...	1320	3.0	.4	50	240	80	50	240	800	107	0	16000
SEP.												
09...	1330	3.0	1.8	30	80	100	40	250	96	112	0	14000

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESI-DUE (MG/L)
JULY												
15...	2000	.17	.34	.44	.01	.33	.67	.68	3.0	26200	35.6	29300
AUG.												
12...	2000	.19	.35	.45	.01	.36	.71	.72	3.2	28700	39.0	38100
SEP.												
09...	1800	.24	.47	.61	.08	.47	.94	1.0	4.5	26300	35.8	28300

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SALIN-ITY (PPT)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JULY											
15...	4700	4600	1.8	91	0	.02	1	1	.0	17	26000
AUG.											
12...	3900	3800	5.4	88	0	.00	2	1	.1	17	26000
SEP.											
09...	1000	930	9.0	92	0	.01	1	0	.0	10	31000

DATE	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
15...	8.0	29.0	18.0	6.1	70	640	29	8	12	23	5.2
AUG.											
12...	7.5	30.5	22.0	6.5	92	7	1	1	12	25	3.8
SEP.											
09...	7.3	26.0	22.0	6.7	95	20	14	6	21	2.0	4.1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

ANALYSES OF MISCELLANEOUS STATIONS

01119567 - BOLTON LAKE (MIDDLE) NR BOLTON, CT (LAT 41 48 36 LONG 072 25 42)

DATE	TIME	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
JULY, 1974 31...	0910	2.9	330	100	4.2	1.2	5	0	9.7	11

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA (NH4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
JULY, 1974 31...	.02	.48	.62	.04	.24	.72	.76	3.4	47

DATE	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
JULY, 1974 31...	.06	15	11	3.2	4	6	5	.0	63

DATE	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY, 1974 31...	6.4	23.0	23.0	6.2	71	5200	<1	25	6.6

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

CONNECTICUT RIVER BASIN

TOWN OF GLASTONBURY

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
GL 231	41 38 52	072 34 38	01	300NCBC	74-07-31	19	10	560	20	43

MILL RIVER BASIN (east of Housatonic River)

TOWN OF NEW HAVEN

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
NHN 355	41 18 43	072 54 39	01	112SFDF	73-10-01	--	--	--	--	--
				112SFDF	73-10-23	--	--	--	--	--
				112SFDF	73-11-20	--	--	--	--	--
				112SFDF	74-01-22	--	--	--	--	--
				112SFDF	74-01-24	--	--	--	--	--
				112SFDF	74-02-22	--	--	--	--	--
				112SFDF	74-03-22	--	--	--	--	--
				112SFDF	74-04-24	--	--	--	--	--
				112SFDF	74-05-23	17	--	40	60	100
				112SFDF	74-06-24	--	--	--	--	--
				112SFDF	74-07-26	--	--	--	--	--
				112SFDF	74-08-23	--	--	--	--	--
				112SFDF	74-09-25	--	--	--	--	--

WEST RIVER BASIN (west of Quinnipiac River)

TOWN OF NEW HAVEN

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
NHN 358	41 18 34	072 57 07	01	112SFDF	73-10-01	--	--	--	--	--
				112SFDF	73-10-23	--	--	--	--	--
				112SFDF	73-11-20	--	--	--	--	--
				112SFDF	74-01-02	--	--	--	--	--
				112SFDF	74-01-24	--	--	--	--	--
				112SFDF	74-02-22	--	--	--	--	--
				112SFDF	74-03-22	--	--	--	--	--
				112SFDF	74-04-24	--	--	--	--	--
				112SFDF	74-05-23	14	--	40	30	91
				112SFDF	74-06-24	--	--	--	--	--
				112SFDF	74-07-26	--	--	--	--	--
				112SFDF	74-08-23	--	--	--	--	--
				112SFDF	74-09-25	--	--	--	--	--

LONG ISLAND SOUND

TOWN OF NEW HAVEN

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
NHN 354	41 18 26	072 55 36	01	112SFDF	73-10-01	--	--	--	--	--
				112SFDF	73-10-23	--	--	--	--	--
				112SFDF	73-11-20	--	--	--	--	--
				112SFDF	74-01-02	--	--	--	--	--
				112SFDF	74-01-24	--	--	--	--	--
				112SFDF	74-02-22	--	--	--	--	--
				112SFDF	74-03-22	--	--	--	--	--
				112SFDF	74-04-24	--	--	--	--	--
				112SFDF	74-05-23	20	--	60	20	120
				112SFDF	74-06-24	--	--	--	--	--
				112SFDF	74-07-26	--	--	--	--	--
				112SFDF	74-08-23	--	--	--	--	--
				112SFDF	74-09-25	--	--	--	--	--
NHN 356	41 16 01	072 54 50	01	112SFDF	73-10-01	--	--	--	--	--
				112SFDF	73-10-23	--	--	--	--	--
				112SFDF	73-11-20	--	--	--	--	--
				112SFDF	74-01-02	--	--	--	--	--
				112SFDF	74-01-24	--	--	--	--	--
				112SFDF	74-02-22	--	--	--	--	--
				112SFDF	74-03-22	--	--	--	--	--
				112SFDF	74-04-24	--	--	--	--	--
				112SFDF	74-05-23	19	--	170	4700	210
				112SFDF	74-06-24	--	--	--	--	--
				112SFDF	74-07-26	--	--	--	--	--
				112SFDF	74-08-23	--	--	--	--	--
				112SFDF	74-09-25	--	--	--	--	--

GEOLOGIC UNIT: 112SFDF STRATIFIED DRIFT, 300 NCBC NONCARBONATE CRYSTALLINE BEDROCK

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)
CONNECTICUT RIVER BASIN--Continued										
TOWN OF GLASTONBURY--Continued										
GL 231	74-07-31	3.1	11	2.8	95	0	56	12	.00	.00
MILL RIVER BASIN (east of Housatonic River)--Continued										
TOWN OF NEW HAVEN--Continued										
NHN 355	73-10-01	--	--	--	--	--	--	200	--	--
	73-10-23	--	--	--	--	--	--	230	--	--
	73-11-20	--	--	--	--	--	--	230	--	--
	74-01-22	--	--	--	--	--	--	240	--	--
	74-01-24	--	--	--	--	--	--	250	--	--
	74-02-22	--	--	--	--	--	--	300	--	--
	74-03-22	--	--	--	--	--	--	300	--	--
	74-04-24	--	--	--	--	--	--	300	--	--
	74-05-23	34	130	13	340	0	200	260	--	--
	74-06-24	--	--	--	--	--	--	220	--	--
	74-07-26	--	--	--	--	--	--	260	--	--
	74-08-23	--	--	--	--	--	--	230	--	--
	74-09-25	--	--	--	--	--	--	310	--	--
WEST RIVER BASIN (west of Quinnipiac River)--Continued										
TOWN OF NEW HAVEN--Continued										
NHN 358	73-10-01	--	--	--	--	--	--	35	--	--
	73-10-23	--	--	--	--	--	--	36	--	--
	73-11-20	--	--	--	--	--	--	33	--	--
	74-01-02	--	--	--	--	--	--	36	--	--
	74-01-24	--	--	--	--	--	--	35	--	--
	74-02-22	--	--	--	--	--	--	32	--	--
	74-03-22	--	--	--	--	--	--	28	--	--
	74-04-24	--	--	--	--	--	--	26	--	--
	74-05-23	21	14	10	258	0	92	22	--	--
	74-06-24	--	--	--	--	--	--	20	--	--
	74-07-26	--	--	--	--	--	--	20	--	--
	74-08-23	--	--	--	--	--	--	20	--	--
	74-09-25	--	--	--	--	--	--	22	--	--
LONG ISLAND SOUND--Continued										
TOWN OF NEW HAVEN--Continued										
NHN 354	73-10-01	--	--	--	--	--	--	120	--	--
	73-10-23	--	--	--	--	--	--	110	--	--
	73-11-20	--	--	--	--	--	--	130	--	--
	74-01-02	--	--	--	--	--	--	140	--	--
	74-01-24	--	--	--	--	--	--	130	--	--
	74-02-22	--	--	--	--	--	--	140	--	--
	74-03-22	--	--	--	--	--	--	160	--	--
	74-04-24	--	--	--	--	--	--	180	--	--
	74-05-23	16	59	4.6	175	0	69	160	--	--
	74-06-24	--	--	--	--	--	--	170	--	--
	74-07-26	--	--	--	--	--	--	140	--	--
	74-08-23	--	--	--	--	--	--	120	--	--
	74-09-25	--	--	--	--	--	--	130	--	--
NHN 356	73-10-01	--	--	--	--	--	--	190	--	--
	73-10-23	--	--	--	--	--	--	200	--	--
	73-11-20	--	--	--	--	--	--	200	--	--
	74-01-02	--	--	--	--	--	--	200	--	--
	74-01-24	--	--	--	--	--	--	180	--	--
	74-02-22	--	--	--	--	--	--	200	--	--
	74-03-22	--	--	--	--	--	--	190	--	--
	74-04-24	--	--	--	--	--	--	200	--	--
	74-05-23	58	110	14	563	0	200	200	--	--
	74-06-24	--	--	--	--	--	--	210	--	--
	74-07-26	--	--	--	--	--	--	220	--	--
	74-08-23	--	--	--	--	--	--	230	--	--
	74-09-25	--	--	--	--	--	--	230	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

CONNECTICUT RIVER BASIN--Continued

TOWN OF GLASTONBURY--Continued

LOCAL IDENTIFIER	DATE OF SAMPLE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
GL 231	74-07-31	--	--	.51	.02	.02	.53	2.3	194	.26

MILL RIVER BASIN (east of Housatonic River)--Continued

TOWN OF NEW HAVEN--Continued

LOCAL IDENTIFIER	DATE OF SAMPLE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
NHN 355	73-10-01	--	--	--	--	--	--	--	--	--
	73-10-23	--	--	--	--	--	--	--	--	--
	73-11-20	--	--	--	--	--	--	--	--	--
	74-01-22	--	--	--	--	--	--	--	--	--
	74-01-24	--	--	--	--	--	--	--	--	--
	74-02-22	--	--	--	--	--	--	--	--	--
	74-03-22	--	--	--	--	--	--	--	--	--
	74-04-26	--	--	--	--	--	--	--	--	--
	74-05-23	.00	10	10	--	--	--	--	1060	--
	74-06-26	--	--	--	--	--	--	--	--	--
	74-07-26	--	--	--	--	--	--	--	--	--
	74-08-23	--	--	--	--	--	--	--	--	--
	74-09-25	--	--	--	--	--	--	--	--	--

WEST RIVER BASIN (west of Quinnipiac River)--Continued

TOWN OF NEW HAVEN--Continued

LOCAL IDENTIFIER	DATE OF SAMPLE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
NHN 358	73-10-01	--	--	--	--	--	--	--	--	--
	73-10-23	--	--	--	--	--	--	--	--	--
	73-11-20	--	--	--	--	--	--	--	--	--
	74-01-02	--	--	--	--	--	--	--	--	--
	74-01-24	--	--	--	--	--	--	--	--	--
	74-02-22	--	--	--	--	--	--	--	--	--
	74-03-22	--	--	--	--	--	--	--	--	--
	74-04-26	--	--	--	--	--	--	--	--	--
	74-05-23	.01	6.6	6.6	--	--	--	--	391	--
	74-06-26	--	--	--	--	--	--	--	--	--
	74-07-26	--	--	--	--	--	--	--	--	--
	74-08-23	--	--	--	--	--	--	--	--	--
	74-09-25	--	--	--	--	--	--	--	--	--

LONG ISLAND SOUND--Continued

TOWN OF NEW HAVEN--Continued

LOCAL IDENTIFIER	DATE OF SAMPLE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
NHN 354	73-10-01	--	--	--	--	--	--	--	--	--
	73-10-23	--	--	--	--	--	--	--	--	--
	73-11-20	--	--	--	--	--	--	--	--	--
	74-01-02	--	--	--	--	--	--	--	--	--
	74-01-24	--	--	--	--	--	--	--	--	--
	74-02-22	--	--	--	--	--	--	--	--	--
	74-03-22	--	--	--	--	--	--	--	--	--
	74-04-26	--	--	--	--	--	--	--	--	--
	74-05-23	.01	9.2	9.2	--	--	--	--	535	--
	74-06-26	--	--	--	--	--	--	--	--	--
	74-07-26	--	--	--	--	--	--	--	--	--
	74-08-23	--	--	--	--	--	--	--	--	--
	74-09-25	--	--	--	--	--	--	--	--	--
NHN 356	73-10-01	--	--	--	--	--	--	--	--	--
	73-10-23	--	--	--	--	--	--	--	--	--
	73-11-20	--	--	--	--	--	--	--	--	--
	74-01-02	--	--	--	--	--	--	--	--	--
	74-01-24	--	--	--	--	--	--	--	--	--
	74-02-22	--	--	--	--	--	--	--	--	--
	74-03-22	--	--	--	--	--	--	--	--	--
	74-04-26	--	--	--	--	--	--	--	--	--
	74-05-23	.01	5.6	5.6	--	--	--	--	1090	--
	74-06-26	--	--	--	--	--	--	--	--	--
	74-07-26	--	--	--	--	--	--	--	--	--
	74-08-23	--	--	--	--	--	--	--	--	--
	74-09-25	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

CONNECTICUT RIVER BASIN--Continued

TOWN OF GLASTONBURY--Continued

LOCAL IDENTIFIER	DATE OF SAMPLE	TOTAL PHOSPHORUS (P) (MG/L)	ALKALINITY AS CACO3 (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC CARBON (C) (MG/L)
GL 231	74-07-31	.03	78	120	42	.4	16	1.9	1	.6

MILL RIVER BASIN (east of Housatonic River)--Continued

TOWN OF NEW HAVEN--Continued

LOCAL IDENTIFIER	DATE OF SAMPLE	TOTAL PHOSPHORUS (P) (MG/L)	ALKALINITY AS CACO3 (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC CARBON (C) (MG/L)
NHN 355	73-10-01	--	--	--	--	--	--	--	--	--
	73-10-23	--	--	--	--	--	--	--	--	--
	73-11-20	--	--	--	--	--	--	--	--	--
	74-01-22	--	--	--	--	--	--	--	--	--
	74-01-24	--	--	--	--	--	--	--	--	--
	74-02-22	--	--	--	--	--	--	--	--	--
	74-03-22	--	--	--	--	--	--	--	--	--
	74-04-24	--	--	--	--	--	--	--	--	--
	74-05-23	--	279	590	310	2.3	32	6.8	--	--
	74-06-24	--	--	--	--	--	--	--	--	--
	74-07-26	--	--	--	--	--	--	--	--	--
	74-08-23	--	--	--	--	--	--	--	--	--
	74-09-25	--	--	--	--	--	--	--	--	--

WEST RIVER BASIN (west of Quinnipiac River)--Continued

TOWN OF NEW HAVEN--Continued

LOCAL IDENTIFIER	DATE OF SAMPLE	TOTAL PHOSPHORUS (P) (MG/L)	ALKALINITY AS CACO3 (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC CARBON (C) (MG/L)
NHN 358	73-10-01	--	--	--	--	--	--	--	--	--
	73-10-23	--	--	--	--	--	--	--	--	--
	73-11-20	--	--	--	--	--	--	--	--	--
	74-01-02	--	--	--	--	--	--	--	--	--
	74-01-24	--	--	--	--	--	--	--	--	--
	74-02-22	--	--	--	--	--	--	--	--	--
	74-03-22	--	--	--	--	--	--	--	--	--
	74-04-24	--	--	--	--	--	--	--	--	--
	74-05-23	--	212	310	100	.3	9	3.3	--	--
	74-06-24	--	--	--	--	--	--	--	--	--
	74-07-26	--	--	--	--	--	--	--	--	--
	74-08-23	--	--	--	--	--	--	--	--	--
	74-09-25	--	--	--	--	--	--	--	--	--

LONG ISLAND SOUND--Continued

TOWN OF NEW HAVEN--Continued

LOCAL IDENTIFIER	DATE OF SAMPLE	TOTAL PHOSPHORUS (P) (MG/L)	ALKALINITY AS CACO3 (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC CARBON (C) (MG/L)
NHN 354	73-10-01	--	--	--	--	--	--	--	--	--
	73-10-23	--	--	--	--	--	--	--	--	--
	73-11-20	--	--	--	--	--	--	--	--	--
	74-01-02	--	--	--	--	--	--	--	--	--
	74-01-24	--	--	--	--	--	--	--	--	--
	74-02-22	--	--	--	--	--	--	--	--	--
	74-03-22	--	--	--	--	--	--	--	--	--
	74-04-24	--	--	--	--	--	--	--	--	--
	74-05-23	--	144	370	220	1.3	26	2.2	--	--
	74-06-24	--	--	--	--	--	--	--	--	--
	74-07-26	--	--	--	--	--	--	--	--	--
	74-08-23	--	--	--	--	--	--	--	--	--
	74-09-25	--	--	--	--	--	--	--	--	--
NHN 356	73-10-01	--	--	--	--	--	--	--	--	--
	73-10-23	--	--	--	--	--	--	--	--	--
	73-11-20	--	--	--	--	--	--	--	--	--
	74-01-02	--	--	--	--	--	--	--	--	--
	74-01-24	--	--	--	--	--	--	--	--	--
	74-02-22	--	--	--	--	--	--	--	--	--
	74-03-22	--	--	--	--	--	--	--	--	--
	74-04-24	--	--	--	--	--	--	--	--	--
	74-05-23	--	462	770	310	1.7	23	9.0	--	--
	74-06-24	--	--	--	--	--	--	--	--	--
	74-07-26	--	--	--	--	--	--	--	--	--
	74-08-23	--	--	--	--	--	--	--	--	--
	74-09-25	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER IN CONNECTICUT

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TUR-BID-ITY (JTU)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
CONNECTICUT RIVER BASIN--Continued								
TOWN OF GLASTONBURY--Continued								
GL 231	74-07-31	1	27.0	14.0	8.7	84	237	7.9
MILL RIVER BASIN (east of Housatonic River)--Continued								
TOWN OF NEW HAVEN--Continued								
NHN 355	73-10-01	--	--	18.0	--	--	1450	--
	73-10-23	--	--	--	--	--	1400	--
	73-11-20	--	--	13.5	--	--	1540	--
	74-01-22	--	--	11.5	--	--	1600	--
	74-01-24	--	12.5	--	--	--	1660	--
	74-02-22	--	--	11.0	--	--	1600	--
	74-03-22	--	--	10.0	--	--	1600	--
	74-04-24	--	--	12.5	--	--	1575	--
	74-05-23	--	--	14.5	--	--	1525	7.9
	74-06-24	--	--	15.0	--	--	1600	--
	74-07-26	--	--	17.0	--	--	1740	--
	74-08-23	--	--	10.0	--	--	1675	--
	74-09-25	--	--	--	--	--	1750	--
WEST RIVER BASIN (west of Quinnipiac River)--Continued								
TOWN OF NEW HAVEN--Continued								
NHN 358	73-10-01	--	--	16.0	--	--	725	--
	73-10-23	--	--	--	--	--	700	--
	73-11-20	--	--	14.0	--	--	670	--
	74-01-02	--	--	14.0	--	--	790	--
	74-01-24	--	--	14.5	--	--	830	--
	74-02-22	--	--	14.0	--	--	990	--
	74-03-22	--	--	14.0	--	--	800	--
	74-04-24	--	--	15.0	--	--	720	--
	74-05-23	--	--	15.0	--	--	630	8.1
	74-06-24	--	--	16.0	--	--	570	--
	74-07-26	--	--	--	--	--	520	--
	74-08-23	--	--	15.5	--	--	500	--
	74-09-25	--	--	--	--	--	430	--
LONG ISLAND SOUND--Continued								
TOWN OF NEW HAVEN--Continued								
NHN 354	73-10-01	--	--	15.5	--	--	860	--
	73-10-23	--	--	--	--	--	840	--
	73-11-20	--	--	14.0	--	--	890	--
	74-01-02	--	--	14.5	--	--	1000	--
	74-01-24	--	--	14.5	--	--	960	--
	74-02-22	--	--	14.0	--	--	920	--
	74-03-22	--	--	14.0	--	--	920	--
	74-04-24	--	--	15.0	--	--	940	--
	74-05-23	--	--	15.0	--	--	910	8.1
	74-06-24	--	--	16.0	--	--	950	--
	74-07-26	--	--	16.5	--	--	870	--
	74-08-23	--	--	16.0	--	--	870	--
	74-09-25	--	--	--	--	--	825	--
NHN 356	73-10-01	--	--	15.0	--	--	1650	--
	73-10-23	--	--	--	--	--	1650	--
	73-11-20	--	--	13.0	--	--	1600	--
	74-01-02	--	--	13.5	--	--	1750	--
	74-01-24	--	--	13.5	--	--	1750	--
	74-02-22	--	--	13.5	--	--	1660	--
	74-03-22	--	--	13.5	--	--	1650	--
	74-04-24	--	--	13.5	--	--	1575	--
	74-05-23	--	--	13.5	--	--	1600	8.0
	74-06-24	--	--	15.0	--	--	1500	--
	74-07-26	--	--	--	--	--	1550	--
	74-08-23	--	--	14.5	--	--	1700	--
	74-09-25	--	--	--	--	--	1700	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

LOCAL IDENTIFIER	DATE OF SAMPLE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
	CONNECTICUT RIVER BASIN--Continued			
	TOWN OF GLASTONBURY--Continued			
GL 231	74-07-31	<1	<1	<1
	MILL RIVER BASIN (east of Housatonic River)--Continued			
	TOWN OF NEW HAVEN--Continued			
NH 355	73-10-01	--	--	--
	73-10-23	--	--	--
	73-11-20	--	--	--
	74-01-22	--	--	--
	74-01-24	--	--	--
	74-02-22	--	--	--
	74-03-22	--	--	--
	74-04-24	--	--	--
	74-05-23	--	--	--
	74-06-24	--	--	--
	74-07-26	--	--	--
	74-08-23	--	--	--
	74-09-25	--	--	--
	WEST RIVER BASIN (west of Quinnipiac River)--Continued			
	TOWN OF NEW HAVEN--Continued			
NH 356	73-10-01	--	--	--
	73-10-23	--	--	--
	73-11-20	--	--	--
	74-01-02	--	--	--
	74-01-24	--	--	--
	74-02-22	--	--	--
	74-03-22	--	--	--
	74-04-24	--	--	--
	74-05-23	--	--	--
	74-06-24	--	--	--
	74-07-26	--	--	--
	74-08-23	--	--	--
	74-09-25	--	--	--
	LONG ISLAND SOUND--Continued			
	TOWN OF NEW HAVEN--Continued			
NH 354	73-10-01	--	--	--
	73-10-23	--	--	--
	73-11-20	--	--	--
	74-01-02	--	--	--
	74-01-24	--	--	--
	74-02-22	--	--	--
	74-03-22	--	--	--
	74-04-24	--	--	--
	74-05-23	--	--	--
	74-06-24	--	--	--
	74-07-26	--	--	--
	74-08-23	--	--	--
	74-09-25	--	--	--
NH 358	73-10-01	--	--	--
	73-10-23	--	--	--
	73-11-20	--	--	--
	74-01-02	--	--	--
	74-01-24	--	--	--
	74-02-22	--	--	--
	74-03-22	--	--	--
	74-04-24	--	--	--
	74-05-23	--	--	--
	74-06-24	--	--	--
	74-07-26	--	--	--
	74-08-23	--	--	--
	74-09-25	--	--	--

Preceding page blank

PART 3. GROUND-WATER RECORDS

WATER LEVEL MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

FAIRFIELD COUNTY

413007073250501. (BD 8) U.S. Geological Survey, Route 7, Brookfield. Bored unused observation water-table well in sand and gravel of Pleistocene age, diam 1¼ in (3.2 cm), depth 53 ft (16 m), well point 50-53 (15-16 m), plastic. Lsd about 255 ft (78 m) above msl. MP top of steel casing, 0.40 ft (0.12 m) above lsd (formerly 1.10 ft [0.34 m]). Highest water level 26.89 (8.20 m) June 26, 1972; lowest 33.05 (10.07 m) Jan. 4, 1967. Records available 1967-74.

	1973			1974		May	23	28.58
Oct.	23	32.34	Jan.	23	29.48	June	24	29.82
Nov.	19	32.56	Feb.	22	28.66	July	22	30.89
Dec.	28	30.60	Mar.	21	29.07	Aug.	23	31.88
			Apr.	24	27.84	Sept.	23	32.10

411256073153101. (FF 23) U.S. Geological Survey, Merritt Parkway near Route 59, Fairfield. Bored unused observation water-table well in glacial gravel of Pleistocene age, diam 1¼ in (3.2 cm), depth 42 ft (13 m), screened 39-42 (12-13 m), steel. Lsd 130 ft (40 m) above msl. MP top of casing, 2.40 ft (0.73 m) above lsd. Highest water level 4.78 (1.46 m) June 23, 1972; lowest 8.79 (2.68 m) Sept. 25, 1967. Records available 1966-74.

	1973			1974		May	23	8.21
Oct.	23	8.53	Jan.	24	6.70	June	24	8.24
Nov.	20	8.38	Feb.	22	7.90	July	26	8.60
			Mar.	21	7.86	Aug.	23	8.57
			Apr.	24	7.75	Sept.	25	8.27

412429073165101. (NT 15) U.S. Geological Survey, near Fairfield State Hospital, Newtown. Bored unused observation water-table well in glacial sand and gravel of Pleistocene age, diam 1¼ in (3.2 cm), depth 33 ft (10 m), well point 31-33 ft (9-10 m), plastic. Lsd about 265 ft (81 m) above msl. Highest water level 0.61 (0.19 m) June 26, 1972; lowest 10.50 (3.20 m) Oct. 23, 1971. Records available 1967-74.

	1973			1974		May	23	3.98
Oct.	23	8.91	Jan.	23	1.85	June	24	6.08
Nov.	20	9.12	Feb.	22	2.15	July	23	7.78
Dec.	28	2.26	Mar.	21	2.43	Aug.	23	8.43
			Apr.	24	1.95	Sept.	23	4.74

HARTFORD COUNTY

414615072581601. (BU 2) Snow Realty, Bristol, junction of State Route 4 and 69, Burlington. Dug domestic water-table well in glacial till of Pleistocene age, diam 36 in (91 cm), depth 37 (or 38) ft (11 m), stone-lined. Lsd about 880 ft (268 m) above msl. MP top of curb, 3.00 ft (0.91 m) above lsd. Highest water level 12.70 (3.87 m) Aug. 19, 1955; lowest 37.41 (11.40 m) Dec. 22, 1948. Records available 1946-74.

	1973			1974				
Oct.	23	23.89	Jan.	23	18.16	May	23	18.00
Nov.	20	24.84	Feb.	22	17.80	June	24	19.98
Dec.	21	21.98	Mar.	21	18.33	July	24	23.45
			Apr.	24	16.69	Aug.	23	26.93
						Sept.	23	30.70

414910072372101. (SW 64) Frank Pierce, Jr., Main St., South Windsor. Dug unused water-table well in glacial sand of Pleistocene age, diam 24 in (61 cm), depth 18 ft (5 m), brick-lined. Lsd about 40 ft (12 m) above msl. MP top edge of hole in flagstone cover, 0.50 ft (0.15 m) above lsd. Highest water level 7.15 (2.18 m) Mar. 30, 1936; lowest 15.22 (4.64 m) Jan. 26, 1966. Records available 1934-39, 1948-74.

	1973			1974				
Oct.	23	11.28	Jan.	22	9.74	May	20	9.53
Nov.	26	11.58	Feb.	20	9.37	June	20	10.61
Dec.	26	9.43	Mar.	22	9.13	July	24	11.15
			Apr.	24	8.57	Aug.	27	11.87
						Sept.	23	11.37

LITCHFIELD COUNTY

420125073193001. (NOC 7) James Lyles, U.S. Route 7 and East Main St., North Canaan. Dug unused water-table well in glacial sand and gravel of Pleistocene age, diam 24 in (61 cm), depth 12 ft (4 m), stone-lined. Lsd about 675 ft (206 m) above msl. MP top of concrete curb, at lsd. Highest water level 7.60 (2.32 m) Mar. 26, 1963; lowest 11.10 (3.41 m) Sept. 5, 1961. Records available 1958-74.

	1973			1974		May	22	9.06
Oct.	23	9.63	Jan.	22	9.10	June	24	9.47
Nov.	20	9.38	Feb.	22	9.17	July	22	9.66
Dec.	20	8.96	Mar.	21	8.94	Aug.	23	10.07
			Apr.	23	8.97	Sept.	23	9.05

414910073072301. (T 2) Warrenton Woolen Co., 839 Main St., Torrington. Drilled unused artesian well in crystalline bedrock, diam 8 in (20 cm), depth 381 ft (116 m), cased to 34 (10 m). Lsd about 650 ft (198 m) above msl. MP top of casing at lsd. Highest water level 5.02 (1.53 m) May 8, 1972; lowest 8.60 (2.62 m) Sept. 28, 1964. Records available 1958-74.

	1973		Jan.	14	6.25	May	20	6.31
Oct.	1	7.12		21	6.37		28	6.53
	8	7.19		31	5.62	June	3	6.60
	15	7.22	Feb.	4	5.91		10	6.77
	22	7.35		11	6.30		17	6.85
	29	7.44		18	6.52		24	6.86
Nov.	5	6.50		25	6.08	July	1	6.97
	12	6.70	Mar.	4	6.24		9	6.55
	19	6.95		11	6.17		15	6.75
	26	6.69		18	5.87		22	6.83
Dec.	3	6.48		25	5.80		29	6.92
	10	5.88	Apr.	1	5.84	Aug.	5	7.02
	17	5.86		8	5.82		12	7.16
	24	5.79		15	5.68		19	7.05
	31	5.63		22	6.06	Sept.	3	6.95
				29	6.36		9	6.50
	1974		May	6	6.37		16	6.75
Jan.	7	6.06		13	5.97		23	6.41

413202073122401. (WY 1) Irene Boultbee, Main St., about 500 ft (152 m) south of Orenaug Rd., Woodbury. Dug unused water-table well in glacial sand and gravel of Pleistocene age, diam 30 in (76 cm), depth 31 ft (9 m), stone-lined. Lsd about 270 ft (82 m) above msl. MP top of hole in cover, 2.62 ft (0.80 m) above lsd.[a] Recording gage installed Oct. 5, 1965; removed May 18, 1970. Highest water level 19.44 (5.93 m) Apr. 1, 1953; lowest 31.00 (9.45 m) Oct. 14, 1914. Records available 1913-16, 1944-74. [a] Fluctuation affected by pumping.

	1973			1974		May	23	21.81
Oct.	23	29.34	Jan.	23	21.33	June	24	22.80
Nov.	20	29.37	Feb.	22	21.02	July	23	24.88
Dec.	21	28.60	Mar.	21	21.71	Aug.	23	28.20
			Apr.	24	21.01	Sept.	23	29.17

MIDDLESEX COUNTY

413033072432001. (MF 1) Lyman Gun Sight Corp., near Baileyville, Middlefield. Dug unused water-table well in glacial till of Pleistocene age, diam 24 in (61 cm), depth 22 ft (7 m), stone-lined. Lsd about 260 ft (79 m) above msl. MP top of north side of flagstone curb at lsd. Highest water level 3.02 (0.92 m) Mar. 22, 1974; lowest 16.92 (5.16 m) Nov. 24, 1964. Records available 1946-74.

	1973			1974		May	23	7.76
Oct.	23	13.88	Jan.	24	3.05	June	24	10.33
Nov.	20	14.15	Feb.	22	5.00	July	26	12.02
Dec.	26	3.91	Mar.	22	3.02	Aug.	23	13.44
			Apr.	24	5.97	Sept.	26	12.32

413254072335501. (MT 281) United Aircraft Corp., Middletown. Dug unused water-table well in glacial sand and gravel of Pleistocene age, diam 36 in (91 cm), depth 28 ft (9 m), stone-lined. Lsd about 145 ft (44 m) above msl. MP top of stone cover at lsd. Highest water level 10.46 (3.19 m) May 21, 1970; lowest dry Dec. 2, 1957. Records available 1956-74.

	1973			1974				
						May	23	19.80
Oct.	23	24.67	Jan.	24	18.49	June	24	20.90
Nov.	20	24.87	Feb.	21	19.18	July	26	22.10
Dec.	21	19.95	Mar.	21	18.93	Aug.	22	22.42
			Apr.	24	19.08	Sept.	-	-

NEW HAVEN COUNTY

411457072524501. (EHV 70) F. Federico, Silver Sands Rd., East Haven. Dug unused water-table well in glacial till of Pleistocene age, diam 24 in (61 cm), depth 16 ft (5 m), cement tile. Lsd about 25 ft (8 m) above msl. MP top of concrete curb, 2.10 ft (0.64 m) above lsd. Highest water level 6.44 (1.96 m) June 21, 1972; lowest 16.03 (4.89 m) Nov. 22, 1935. Records available 1935-39, 1951-74.

	1973			1974				
						May	23	10.75
Oct.	23	14.50	Jan.	24	8.62	June	24	11.60
Nov.	20	14.65	Feb.	22	9.70	July	26	12.20
Dec.	26	9.40	Mar.	22	8.04	Aug.	23	14.65
			Apr.	24	9.15	Sept.	25	14.61

411842072553601. (NHN 170) Yale University, Grove and College Sts., New Haven. Driven unused water-table well in glacial sand of Pleistocene age, diam 2 in (5.1 cm), depth 14 ft (4 m). Lsd 41.09 ft (12.52 m) above msl. MP top of casing 23.39 ft (7.13 m) above msl. Highest water level 19.31 (5.89 m) above msl July 24, 1973; lowest 15.64 (4.77 m) above msl Jan. 14, 1942. Records available 1939-74.

	1973			1974				
						May	-	-
Oct.	23	17.79	Jan.	24	18.03	June	-	-
Nov.	20	17.79	Feb.	22	18.35	July	-	-
Dec.	26	17.59	Mar.	22	18.24	Aug.	23	17.89
			Apr.	24	18.63	Sept.	-	-

411838072570701. (NHN 175) Monarch Laundry, Derby Ave. and Ellsworth St., New Haven. Drilled unused water-table well in glacial sand of Pleistocene age, diam 6 in (15 cm), depth 54 ft (16 m). Lsd 32.84 ft (10.01 m) above msl. MP top of shelf, 33.84 ft (10.31 m) above msl. Highest water level 5.42 (1.65 m) above msl May 28, 1953; lowest 2.27 (0.69 m) above msl Dec. 17, 1961. Records available 1939-74.

	1973			1974				
						May	23	4.67
Oct.	23	5.03	Jan.	24	4.58	June	24	4.69
Nov.	20	4.77	Feb.	22	4.56	July	26	4.67
Dec.	26	4.64	Mar.	22	4.57	Aug.	23	4.65
			Apr.	24	4.60	Sept.	25	4.61

411829072542001. (NHN 178, formerly NHN 178a) Porto Construction Co., Grand Ave. and Haven St., New Haven. Driven unused water-table well in glacial sand of Pleistocene age, diam 3 in (7.6 cm), depth 65 ft (20 m). Lsd 13.76 ft (4.19 m) above msl. MP top of casing 14.36 ft (4.38 m) above msl. Highest water level 0.79 (0.24 m) below msl Mar. 22, 1974; lowest 7.57 (2.31 m) below msl July 28, 1971. Records available 1957-74.

	1973			1974				
Oct.	23	-2.37	Jan.	24	-1.88	May	23	-1.76
Nov.	20	-2.67	Feb.	22	-1.64	June	24	-1.72
Dec.	26	-2.46	Mar.	22	-0.79	July	26	-1.16
			Apr.	24	-1.44	Aug.	23	-2.10
						Sept.	25	-2.24

411805072543801. (NHN 235) C. Cowles and Co., Chestnut and Water Sts., New Haven. Drilled unused water-table well in glacial sand of Pleistocene age, diam 8 in (20 cm), depth 39 ft (12 m), screened 30-38 (9-12 m). Lsd 14.80 ft (4.51 m) above msl. MP seat of manhole cover, 14.80 ft (4.51 m) above msl. Fluctuation affected by pumping. Highest water level 5.95 (1.81 m) above msl Mar. 22, 1974; lowest 2.30 (0.70 m) below msl Aug. 31, 1944. Records available 1940-74.

	1973			1974				
						May	23	3.48
Oct.	22	2.81	Jan.	24	4.06	June	24	3.93
Nov.	20	2.72	Feb.	22	4.40	July	26	2.83
Dec.	26	4.67	Mar.	22	5.95	Aug.	23	2.77
			Apr.	24	4.02	Sept.	25	2.68

411826072553601. (NHN 354) City of New Haven, Park Dept., on the Green, New Haven. Bored unused water-table observation well in glacial sand of Pleistocene age, diam 1¼ in (3.2 cm), depth 43 ft (13 m). MP top of pipe at lsd. Highest water level 15.26 (4.65 m) June 27, 1972; lowest 18.60 (5.67 m) Aug. 23, 1974. Records available 1971-74.

	1973			1974				
						May	23	17.16
Oct.	23	17.10	Jan.	2	16.63	June	24	17.80
Nov.	20	17.20	Feb.	22	16.69	July	26	18.30
Dec.	-	-	Mar.	22	16.57	Aug.	23	18.60
			Apr.	24	16.80	Sept.	25	18.40

411843072543901. (NHN 355) City of New Haven, playground at Wallace St., New Haven. Bored unused water-table observation well in glacial sand and gravel of Pleistocene age, diam 1¼ in (3.2 cm), depth 39 ft (12 m). MP top of steel coupling at lsd. Highest water level 27.28 (8.31 m) July 26, 1974; lowest 29.40 (8.96 m) Feb. 28, 1972. Records available 1971-74.

	1973			1974				
						May	23	27.57
Oct.	1	28.13	Jan.	2	28.38	June	24	27.58
	23	28.40	Feb.	22	28.03	July	26	27.28
Nov.	20	28.67	Mar.	22	27.98	Aug.	23	28.04
			Apr.	24	27.45	Sept.	25	28.62

411801072545001. (NHN 356) City of New Haven, Fire Dept., Fire School at Forbes Ave., New Haven. Bored unused water-table well in glacial sand and gravel of Pleistocene age, diam 1¼ in (3.2 cm), depth 41 ft (12 m). MP top of steel casing 1.50 ft (0.46 m) above lsd. Highest water level 6.16 (1.88 m) Apr. 24, 1974; lowest 9.72 (2.96 m) June 27, 1972. Records available 1971-74.

	1973			1974				
						May	23	7.33
Oct.	1	7.73	Jan.	2	7.50	June	24	7.71
	23	7.72	Feb.	22	7.19	July	26	8.01
Nov.	20	7.92	Mar.	22	7.30	Aug.	23	8.18
			Apr.	24	6.16	Sept.	25	8.03

411834072570701. (NHN 358) City of New Haven School Dept., Barnard St. School, New Haven. Bored unused water-table observation well in glacial sand and gravel of Pleistocene age, diam 1¼ in (3.2 cm), depth 44 ft (13 m). MP top of steel casing at lsd. Highest water level 24.60 (7.50 m) June 27, 1972; lowest 26.54 (8.08 m) Sept. 25, 1974. Records available 1971-74.

	1973			1974				
						May	23	25.58
Oct.	1	25.94	Jan.	2	26.20	June	24	25.75
	23	26.07	Feb.	22	25.83	July	26	26.03
Nov.	20	26.35	Mar.	22	25.80	Aug.	23	26.19
			Apr.	24	25.37	Sept.	25	26.54

413134073021701. (WB 93) Mrs. Simeon W. Nichols, 118 Pearl Lake Rd., Waterbury. Dug unused water-table well in glacial gravel of Pleistocene age, diam 32 in (81 cm), depth 33 ft (10 m), stone-lined. Lsd about 320 ft (98 m) above msl. MP bottom edge of flagstone at northwest corner of well at lsd. Highest water level 23.99 (7.31 m) Apr. 1, 1953; lowest 29.66 (9.05 m) Sept. 27, 1962. Records available 1944-74.

1973			1974			May	23	27.25
Oct.	23	28.18	Jan.	23	26.82	June	24	27.75
Nov.	20	27.90	Feb.	22	26.74	July	24	28.00
Dec.	21	26.80	Mar.	21	26.78	Aug.	21	28.10
			Apr.	24	25.97	Sept.	23	27.48

413245072584201. (WB 198) A. Baker, 185 Pierpont Rd., Waterbury. Dug domestic water-table well in glacial till of Pleistocene age, diam 30 in (76 m), depth 31 ft (9 m) stone-lined. Lsd about 540 ft (165 m) above msl. MP flagstone at southeast corner of well, at lsd. Highest water level 5.43 (1.66 m) Jan. 10, 1946; lowest 21.00 (6.40 m) Nov. 26, 1949. Records available 1944-74.

1973			1974			May	23	12.70
Oct.	23	18.12	Jan.	23	12.17	June	24	14.33
Nov.	20	18.55	Feb.	22	11.16	July	24	16.02
Dec.	21	15.97	Mar.	21	12.11	Aug.	21	17.23
			Apr.	24	10.79	Sept.	23	15.88

NEW LONDON COUNTY

412013072030601. (GT 19) John E. Ackley, Jr., Poquonock Plains, Groton. Dug unused water-table well in glacial sand and gravel of Pleistocene age, diam 24 (61 cm), depth 18 ft (5 m), stone-lined. Lsd about 22 ft (7 m) above msl. MP bottom of fieldstone on west side of well at lsd. Highest water level 9.98 (3.04 m) Apr. 6, 1970; lowest 17.97 (5.48 m) Oct. 6, 1963. Records available 1938-74.

1973			Feb.	3	13.42	June	10	15.63
Oct.	1	14.48		11	13.82		20	15.98
	7	14.60		20	14.39		24	15.87
	15	14.71		25	14.22	July	2	16.10
	20	14.88	Mar.	4	14.26		10	16.30
	29	14.05		11	14.58		15	16.40
Nov.	3	14.33		20	14.16		20	16.50
	12	14.38		27	12.86		30	16.70
	23	14.74	Apr.	2	13.00	Aug.	2	17.32
	26	14.82		9	13.50		5	16.88
Dec.	3	14.38		15	12.87		12	16.97
	10	14.22		20	13.53		20	17.14
	20	13.78		28	14.13		27	17.30
			May	5	14.63	Sept.	8	16.92
1974				13	15.01		16	16.68
Jan.	7	13.44		20	15.25		20	17.00
	14	14.03		28	15.49		23	16.98
	20	14.20	June	3	15.57		30	16.96
	28	13.17						

TOLLAND COUNTY

414348072114301. (MS 19) C. T. DeBoer, State Route 189 and Cemetery Rd., Mansfield. Dug used water-table well in glacial sand and gravel of Pleistocene age, diam 36 in (91 cm), depth 22 ft (7 m), cement tile. Lsd about 260 ft (79 m) above msl. MP top of tile at lsd. Highest water level 8.89 (2.71 m) Mar. 24, 1972; lowest 15.72 (4.79 m) Jan. 26, 1966. Records available 1958-74.

1973			1974			May	20	10.34
Oct.	23	11.88	Jan.	22	9.75	June	21	11.32
Nov.	26	11.87	Feb.	20	9.83	July	24	12.43
Dec.	27	9.43	Mar.	22	9.60	Aug.	27	13.39
			Apr.	24	9.61	Sept.	23	12.95

WINDHAM COUNTY

414911071562001. (BK 42) Richard Brouillard, Darby and Barrett Hill Rds., Brooklyn. Drilled unused artesian well in crystalline bedrock, diam 6 in (15 cm), depth 107 ft (33 m), cased to 9 (3 m). Lsd about 330 ft (101 m) above msl. MP top of casing, 1.15 ft (0.35 m) above lsd. Highest water level 4.05 (1.23 m) Mar. 24, 1972; lowest dry Aug. 26, 1974. Records available 1957-74.

1973			1974			May	20	9.42
Oct.	23	13.74	Jan.	22	5.47	June	21	11.43
Nov.	26	12.33	Feb.	20	3.05	July	24	13.36
Dec.	7	5.20	Mar.	22	5.05	Aug.	26	well dry
			Apr.	24	7.98	Sept.	23	13.36

414034071552001. (PL 1) Clifford Starkweather, Pleasant St., Plainfield. Dug unused water-table well in glacial sand and gravel of Pleistocene age, diam 36 in (91 cm), depth 34 ft (10 m), brick-lined. Lsd about 180 ft (55 m) above msl. MP top of stone curb at lsd. Affected by pumping well 2,700 ft (810 m) distant since about August 1962. Recorder removed June 25, 1968. Highest water level 27.24 (8.30 m) Apr. 28, 1953; lowest 33.22 (10.13 m) Feb. 11, 1966. Records available 1942-74.

1973			1974			May	20	29.50
Oct.	23	31.11	Jan.	22	29.65	June	21	30.24
Nov.	26	31.48	Feb.	20	29.18	July	24	30.82
Dec.	27	30.50	Mar.	22	29.16	Aug.	27	31.41
			Apr.	24	28.91	Sept.	23	31.83

Abbreviations 21
Accuracy of data 19

Blackwell Brook near Brooklyn 42
Branch Brook near Thomaston 98
Broad Brook at Broad Brook 47
Burlington Brook near Burlington 55,164-167
  crest-stage partial-record station in 116
  low-flow partial-record station in 111

Chemical analyses, ground-water quality:
  Connecticut River basin 246-251
  Long Island Sound 246-251
  Mill River basin (east of Housatonic River) 246-251
  West River basin (west of Quinnipiac River) 246-251
Coginchaug River at Rockfall 62
Collection and computation of data 14-18,20-21
Connecticut River basin:
  crest-stage partial-record stations in 113-114
  gaging-station records in 40-72
  low-flow partial-record stations in 109,110
  quality-of-water records in 148-195,246-251
  reservoirs in 73,74
  tidal records in 58,65-69
  time-of-travel studies in 117
Connecticut River at Agawam, Mass. 148-154
  at East Haddam 195
  at Hartford 58,177
  at Middle Haddam 181-190
  at Middletown 180
  near Middletown 65-69
  at Thompsonville 46,155,162
Cooperation 2-3
Copper Mill Brook near Monroe 93
Crest-stage partial-record stations 112-116

Definition of terms 8-11
Deming Brook near Huntsville 82,210
Downstream order and station numbers 12,13

East River basin (east of Branford River):
  gaging-station record in 76
Eightmile River: East Branch near North Lyme. 72
English-metric (SI) conversion factors 30

Fairfield County, ground-water records in 254
Farmington River at Avon 172
  at Collinsville 52
  at Rainbow 57
  at Tariffville 56,171-174
  at Unionville 168
  at Windsor 176
  West Branch, above Still River, at Riverton. 48
Fivemile River basin:
  crest-stage partial-record station in 115
  low-flow partial-record station in 111
Fourmile River basin:
  crest-stage partial-record station in 115
  low-flow partial-record station in 109
French River at Mechanicsville 151

Ground-water records 253-256
Guinea Brook at Ellsworth 87

Hammonasset River basin:
  gaging-station record in 75
Hammonasset River near North Madison 75
Hartford County, ground-water records in 254
Hemlock Valley Brook at Hadlyme 71
Hockanum River at East Hartford 179
Hollenbeck River at Huntsville 80,204-206
Hop Brook near Naugatuck 89
Housatonic River basin:
  crest-stage partial-record stations in 114-115
  gaging-station records in 80-100
  low-flow partial-record stations in 110-111
  quality-of-water records in 203-236
  reservoirs in 101-102
  time-of-travel study in 118
Housatonic River near Canaan 203
  at Falls Village 85,210-218
  at Gaylordsville 83
  near New Milford 222
  at Shelton 236
  at Stevenson 94,232-235
  at Stratford 239
Hubbard River near West Hartland 51

Introduction 1-2

Lakes and reservoirs:
  Barkhamsted Reservoir 73,74
  Black Rock Lake 102
  Bolton Lake 245
  Bradley Hubbard Reservoir 78
  Broad Brook Reservoir 78
  Buffumville Lake, Mass. 45
  Cairns Reservoir 101,102
  Candlewood (Rocky River Reservoir), Lake 101,102
  Colebrook River Lake 73,74
  East Branch (Farmington River) Reservoir 73,74
  East Branch (Naugatuck River) Detention
    Reservoir 101,102
  East Brimfield Lake, Mass. 45
  Falls Village Reservoir 215
  Hall Meadow Brook Detention Reservoir 101,102
  Hancock Brook Lake 102
  Highland Lake 73,74
  Hodges Village Reservoir, Mass. 45
  Hop Brook Lake 102
  Lillinonah, Lake near Brookfield Center 224
   near Newtown 101,102
  Mad River Detention Reservoir 73,74
  Mansfield Hollow Lake 47
  Morris Reservoir 101,102
  Nepaug Reservoir 73,74
  Northfield Brook Lake 101,102
  Otis Reservoir, Mass. 73,74
  Pitch Reservoir 101,102
  Rainbow Reservoir 173
  Shepaug Reservoir 101,102
  Staffordville Reservoir 45
  Sucker Brook Reservoir 73,74
  Thomaston Reservoir 101,102
  Westville Lake, Mass. 45
  West Branch (Farmington River) Reservoir 73,74
  West Thompson Lake 45
  Whigville Reservoir 73,74
  Wigwam Reservoir 101,102
  Winchester, Lake 101,102
  Wolcott Reservoir 78
  Zoar, Lake at Riverside 230
   at Stevenson 101,102,231
Ledgy Brook near Huntsville 83,211
Litchfield County, ground-water records in 254
Little River (tributary to Shetucket River)
    near Hanover 99
Long Island Sound:
  quality-of-water records in 202,244,246-251
  tidal record in 107
Low-flow partial-record stations 108-111

Marshepaug River near Milton 80
Middlesex County, ground-water records in 254-255
Mill River basin (east of Housatonic River):
  crest-stage partial-record station in 114
  gaging-station record in 79
  low-flow partial-record station in 110
  quality-of-water record in 246-251
Mill River basin (west of Housatonic River):
  crest-stage partial-record station in 115
  gaging-station record in 103
  low-flow partial-record station in 111
Mill River near Fairfield 103
Mill River at Hamden 79
Miscellaneous chemical analysis, surface-
    water site:
  Thames River basin 245
Mount Hope River near Warrenville 36
Mystic River basin:
  crest-stage partial-record station in 112
  low-flow partial-record station in 108

Natchaug River at Willimantic 37,122
Naugatuck River at Ansonia 238
  at Beacon Falls 102,237
  at Thomaston 97
  East Branch, at Torrington 96
  West Branch, at Torrington 95
Neck River near Madison 74
New Haven County, ground-water records in 255-256
New Haven Harbor near New Haven 202
New London County, ground-water record in 256
Noneweug River at Minortown 91
Norwalk River at South Wilton 106
Norwalk River basin:
  crest-stage partial-record station in 115
  gaging-station record in 106
  low-flow partial-record station in 111

Other data available 28

Park River at Hartford 178
  North Branch, at Hartford 60
  South Branch, at Hartford 59
Partial-record stations 108-116
Pawcatuck River basin:
  gaging-station record in 32
  quality-of-water record in 120
Pawcatuck River near Pawcatuck 120
Pendleton Hill Brook near Clarks Falls 32
Pequabuck River at Farmington................... 169
  at Forestville 54
Pequonnock River basin:
  crest-stage partial-record station in 115
  low-flow partial-record station in 111
Pomperaug River at Southbury 92,226-229
Poquonock River basin:
  tidal record in 33
Poquonock River near Groton 33
Publications 19,20,25,26

Quality-of-water records 119-251
Quinebaug River near Dudley, Mass. 128-134
  at Jewett City 43,138-142
  at Putnam 136
  at Pomfret Landing 137
  at Quinebaug 40
  at West Thompson 41
Quinnipiac River basin:
  crest-stage partial-record station in 114
  gaging-station record in 77
  quality-of-water records in 196-201
  reservoirs in 78
  time-of-travel study in 117-118
Quinnipiac River near Meriden 196
  at North Haven 201
  at Wallingford 77,197-200

Radiochemical analyses 161

Safford Brook near Woodstock Valley 35
Salmon Brook (tributary to Farmington River):
  East Branch, at Granby 55
Salmon Brook (tributary to Connecticut River):
  South Branch, at Buckingham 61
Salmon Creek at Lime Rock 86
Salmon River near East Hampton 70,191-194
Sandy Brook at Robertsville 49

Sasco Brook basin:
  gaging-station record in 104
Sasco Brook near Southport 104
Saugatuck River basin:
  gaging-station record in 105
  quality-of-water record in 240-243
Saugatuck River near Redding 105,240-243
Sediment 24
Selected references 27-29
Shepaug River near Roxbury 225
Shetucket River near Willimantic 38,123-126
  at South Windham 127
Solutes 22,23
Special Networks and Programs 11,12
Stamford Harbor at Stamford 244
Stamford Hurricane Barrier at Stamford 107
Still River (tributary to Farmington River):
  at Riverton 165
  at Robertsville 50
Still River (tributary to Housatonic River):
  at Brookfield Center 223
Surface-water records 31-118

Temperature 25
Tenmile River near Gaylordsville 88,219-221
Thames River basin:
  crest-stage partial-record stations in 112-113
  gaging-station records in 34-44
  low-flow partial-record stations in 108-109
  quality-of-water records in 121-147,245
  reservoirs in 45
Thames River near Mohegan 147
Time-of-travel studies 117-118
Tolland County, ground-water record in 256

Wangum Lake Brook near Huntsville 81,207-209
  near South Canaan 84,212-214
Water-level measurements 26,252-255
Water-quality records 119-251
Well number 13
Wepawaug River basin:
  crest-stage partial-record station in 114
  low-flow partial-record station in 110
West River basin (west of Quinnipiac River):
  quality-of-water record in 246-251
Willimantic River at Merrow 121
  near South Coventry 34
Windham County, ground-water records in 256

Yantic River at Yantic 44,143-146

☆U.S. GOVERNMENT PRINTING OFFICE: 1975—A-0268/157